

Customer Name: JACOBS

Order ID: 180607018

999 W RIVERSIDE AVE #500

Order Date: 6/7/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-003 **Customer Sample #:** 1806LBARP06

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 9:40 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-004 **Customer Sample #:** 1806LBARP27

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 10:20 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>

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Comment:

NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-005 **Customer Sample #:** 1806LBARP20B

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM

Time Collected: 11:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-006 **Customer Sample #:** 1806LBARP12

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM

Time Collected: 11:50 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>

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Comment:

pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-007 Customer Sample #: 1806LBARP25

Recv'd: ☒ Matrix: Water Collector: REUBEN GREER Date Collected: 6/6/2018

Quantity: 3 Date Received: 6/7/2018 8:45:00 AM Time Collected: 12:45 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-008 Customer Sample #: 1806LBARP13

Recv'd: ☒ Matrix: Water Collector: REUBEN GREER Date Collected: 6/6/2018

Quantity: 3 Date Received: 6/7/2018 8:45:00 AM Time Collected: 1:30 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>

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Comment:

SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-009 **Customer Sample #:** 1806LBARSA14

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 2:10 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-010 **Customer Sample #:** 1806LBARSA11

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 2:30 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

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Comment:

SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-010A **Customer Sample #:** 1806LBARSA11 MS

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018
Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 2:30 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-010B **Customer Sample #:** 1806LBARSA11 MSD

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 6/6/2018
Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM **Time Collected:** 2:30 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 180607018

999 W RIVERSIDE AVE #500

Order Date: 6/7/2018

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Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

THALLIUM SPO

S

EPA 200.8

6/19/2018

Normal (~10 Days)

Sample #: 180607018-011 **Customer Sample #:** 1806LBARSA10

Recv'd:



Matrix: Water

Collector:

REUBEN GREER

Date Collected: 6/6/2018

Quantity: 3

Date Received:

6/7/2018 8:45:00 AM

Time Collected: 2:55 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Sample #: 180607018-012 **Customer Sample #:** 1806LBARP09

Recv'd:



Matrix: Water

Collector:

REUBEN GREER

Date Collected: 6/6/2018

Quantity: 3

Date Received:

6/7/2018 8:45:00 AM

Time Collected: 3:40 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 180607018

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Order Date: 6/7/2018

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Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

Sample #: 180607018-013 **Customer Sample #:** 1806LBARPW

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 6/6/2018

Quantity: 3 **Date Received:** 6/7/2018 8:45:00 AM

Time Collected: 3:50 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	6/19/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	6/19/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	6/19/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	6/19/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	6/19/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	6/19/2018	<u>Normal (~10 Days)</u>

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	5.3/5.4
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Labels and chain agree?	Yes
Total number of containers?	45



Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

30607 016 **CH2R** Last 6/19/2018
Due

1st SAMP 6/6/2018 1st RCVD 6/7/2018

LEBAR

Turn Around Time & Reporting

Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other* _____

*All rush order requests must be prior approved.

Phone _____
 Mail _____
 Fax _____
 Email _____

Company Name: Jacobs	Project Manager: Craig Sauer
Address: 999 W. Riverside #500	Project Name & #: LBAR
City: Spokane State: WA Zip: 99201	Email Address: Craig.Sauer@ch2m.com
Phone: 504-464-7200	Purchase Order #:
Fax:	Sampler Name & phone: RGREER 504-464-7215

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

[illegible]

Inspection Checklist

Received Intact?	<u>Y</u>	N
Labels & Chains Agree?	<u>Y</u>	N
Containers Sealed?	<u>Y</u>	N
VOC Head Space?	<u>Y</u>	N

	Printed Name	Signature	Company	Date	Time
Relinquished by	REUBEN GROSS		JACOBS	6-7-18	845
Received by	Wendy OZ		Anatuk	6-7-18	084
Relinquished by					
Received by					
Relinquished by					
Received by					

h/c/i
Temperature (°C) 5.3/5.4 104
Preservative: A2504 R329-2 <2
PH 11.6230-7M
Date & Time: 6-7-18 1500
Inspected By: M/az

30607 018 CH2R Last Due 6/19/2018
1st SAMP 6/6/2018 1st RCVD 6/7/2018

LEBAR

Chain of Custody Record

Anatek
Labs,
Inc.

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: JACOBS		Project Manager: CRUIE SAYER		Turn Around Time & Reporting	
Address: 999 W RIVERSIDE AVE SUITE 500		Project Name & #: LEBAR		Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp	
City: SPokane WA State: 99201 Zip: 99201		Email Address: crui@sayerchm.com		*All rush order requests must be prior approved.	
Phone: 504-464-7200		Purchase Order #:		Phone _____ Mail _____ Fax _____ Email _____	
Fax: _____		Sampler Name & phone: CRUIE 509-464-7215		Other* _____	
Provide Sample Description			List Analyses Requested		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative	Sample Volume
1	1806LEBARP19	6/6/18/1330	W		3
2	1806LEBARP05	6/6/18/1915	W		3
3	1806LEBARP06	6/6/18/1940	W		3
4	1806LEBARP27	6/6/18/1020	W		3
5	1806LEBARP08	6/6/18/1100	W		3
6	1806LEBARP12	6/6/18/1150	W		3
7	1806LEBARP25	6/6/18/1245	W		3
8	1806LEBARP13	6/6/18/1330	W		3
9	1806LEBARP14	6/6/18/1410	W		3
10	1806LEBARP11	6/6/18/1430	W		3
11	1806LEBARP10	6/6/18/1455	W		3
12	1806LEBARP04	6/6/18/1540	W		3
13	1806LEBARP02	6/6/18/1550	W		3
Relinquished by: BARBARA BOER			Signature: [Signature]	Date: 6/18/18	Time: 845
Received by: Wendy De			Signature: [Signature]	Date: 6/18/18	Time: 0845
Relinquished by:			Signature:	Date:	Time:
Received by:			Signature:	Date:	Time:
Relinquished by:			Signature:	Date:	Time:
Received by:			Signature:	Date:	Time:

Note Special Instructions/Comments

SWBS

Inspection Checklist

Received Intact? **Y**
Labels & Chains Agree? **Y**
Containers Sealed? **Y**
VOC Head Space? **Y**

N/C/1

Temperature (°C): **5.3/5.4**
Preservative: **H2SO4 R329-2-22**
pH 916230-7M
Date & Time: **6-7-18 1500**

Inspected By: **[Signature]**

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-001	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM
Client Sample ID	1810-LBAR-P09	Sampling Time	8:45 AM	Extraction Date	
Matrix	Water	Sample Location	P09		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.678	mg/L	0.02	10/18/2018 11:39:00 AM	TLM	SM4500NH3G	
Barium	0.122	mg/L	0.001	10/30/2018 2:57:00 PM	BAG	EPA 200.8	
Chloride	523	mg/L	2	10/14/2018 2:01:00 AM	LMD	EPA 300.0	
Conductivity	2750	µmhos/cm	10	10/12/2018 5:00:00 PM	NDE	SM2510B	
Manganese	0.148	mg/L	0.001	10/30/2018 2:57:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 6:11:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 6:11:00 PM	LMD	EPA 300.0	
pH	8.25	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 2:57:00 PM	BAG	EPA 200.8	
TDS	1190	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 2:57:00 PM	BAG	EPA 200.8	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-002	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-PW	Sampling Time	9:00 AM	Extraction Date			
Matrix	Water	Sample Location	PW				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018 11:40:00 AM	TLM	SM4500NH3G	
Barium	0.0684	mg/L	0.001	10/30/2018 2:34:00 PM	BAG	EPA 200.8	
Chloride	0.966	mg/L	0.1	10/12/2018 12:55:00 AM	LMD	EPA 300.0	
Conductivity	483	µmhos/cm	10	10/12/2018 5:00:00 PM	NDE	SM2510B	
Manganese	0.00128	mg/L	0.001	10/30/2018 2:34:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 12:55:00 AM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 12:55:00 AM	LMD	EPA 300.0	
pH	7.67	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 2:34:00 PM	BAG	EPA 200.8	
TDS	196	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 2:34:00 PM	BAG	EPA 200.8	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-003	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P12	Sampling Time	9:45 AM	Extraction Date			
Matrix	Water	Sample Location	P12				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018 11:41:00 AM	TLM	SM4500NH3G	
Barium	0.0357	mg/L	0.001	10/30/2018 2:37:00 PM	BAG	EPA 200.8	
Chloride	8.64	mg/L	0.1	10/12/2018 1:11:00 AM	LMD	EPA 300.0	
Conductivity	1330	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.0154	mg/L	0.001	10/30/2018 2:37:00 PM	BAG	EPA 200.8	
NO3/N	1.43	mg/L	0.1	10/12/2018 1:11:00 AM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 1:11:00 AM	LMD	EPA 300.0	
pH	7.61	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 2:37:00 PM	BAG	EPA 200.8	
TDS	669	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 2:37:00 PM	BAG	EPA 200.8	

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Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-004	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P13	Sampling Time	10:30 AM	Extraction Date			
Matrix	Water	Sample Location	P13				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	40.5	mg/L	0.8	10/25/2018 1:17:00 PM	TLM	SM4500NH3G	
Barium	0.0505	mg/L	0.001	10/30/2018 2:39:00 PM	BAG	EPA 200.8	
Chloride	1150	mg/L	5	10/15/2018 2:18:00 PM	LMD	EPA 300.0	
Conductivity	8800	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	4.55	mg/L	0.02	10/30/2018 2:45:00 PM	BAG	EPA 200.8	
NO3/N	2.70	mg/L	0.1	10/12/2018 2:35:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 2:35:00 PM	LMD	EPA 300.0	
pH	7.26	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 2:39:00 PM	BAG	EPA 200.8	
TDS	4570	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 2:39:00 PM	BAG	EPA 200.8	

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Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-005	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM
Client Sample ID	1810-LBAR-SA14	Sampling Time	10:45 AM	Extraction Date	
Matrix	Water	Sample Location	SA14		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	19.9	mg/L	0.8	10/25/2018 1:18:00 PM	TLM	SM4500NH3G	
Barium	0.0145	mg/L	0.001	10/30/2018 2:42:00 PM	BAG	EPA 200.8	
Chloride	1010	mg/L	5	10/15/2018 4:48:00 PM	LMD	EPA 300.0	
Conductivity	6480	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.00510	mg/L	0.001	10/30/2018 2:42:00 PM	BAG	EPA 200.8	
NO3/N	<1.0	mg/L	1	10/12/2018 4:32:00 PM	LMD	EPA 300.0	
NO2/N	<1.0	mg/L	1	10/12/2018 4:32:00 PM	LMD	EPA 300.0	
pH	9.81	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.0207	mg/L	0.001	10/30/2018 2:42:00 PM	BAG	EPA 200.8	
TDS	3590	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 2:42:00 PM	BAG	EPA 200.8	

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Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-006	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-SA11	Sampling Time	11:30 AM	Extraction Date			
Matrix	Water	Sample Location	SA11				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	57.4	mg/L	0.8	10/25/2018 1:19:00 PM	TLM	SM4500NH3G	
Barium	0.0308	mg/L	0.001	10/30/2018 3:05:00 PM	BAG	EPA 200.8	
Chloride	4760	mg/L	20	10/15/2018 5:05:00 PM	LMD	EPA 300.0	
Conductivity	19900	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.201	mg/L	0.001	10/30/2018 3:05:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 5:21:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 5:21:00 PM	LMD	EPA 300.0	
pH	8.27	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.0128	mg/L	0.001	10/30/2018 3:05:00 PM	BAG	EPA 200.8	
TDS	11800	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:05:00 PM	BAG	EPA 200.8	

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Client: JACOBS
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SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-007	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-SA10	Sampling Time	11:45 AM	Extraction Date			
Matrix	Water	Sample Location	SA10				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	587	mg/L	20	10/25/2018 3:43:00 PM	TLM	SM4500NH3G	
Barium	0.0471	mg/L	0.001	10/30/2018 3:08:00 PM	BAG	EPA 200.8	
Chloride	5360	mg/L	20	10/15/2018 5:38:00 PM	LMD	EPA 300.0	
Conductivity	31600	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	3.42	mg/L	0.02	10/30/2018 3:33:00 PM	BAG	EPA 200.8	
NO3/N	1.60	mg/L	0.1	10/12/2018 5:55:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 5:55:00 PM	LMD	EPA 300.0	
pH	7.41	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.00222	mg/L	0.001	10/30/2018 3:08:00 PM	BAG	EPA 200.8	
TDS	19700	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:08:00 PM	BAG	EPA 200.8	

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Client: JACOBS
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Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-008	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P25	Sampling Time	12:00 PM	Extraction Date			
Matrix	Water	Sample Location	P25				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.687	mg/L	0.02	10/25/2018 3:42:00 PM	TLM	SM4500NH3G	
Barium	0.168	mg/L	0.001	10/30/2018 3:10:00 PM	BAG	EPA 200.8	
Chloride	900	mg/L	5	10/15/2018 2:02:00 PM	LMD	EPA 300.0	
Conductivity	4600	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	10.0	mg/L	0.02	10/30/2018 3:35:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 12:34:00 AM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 12:34:00 AM	LMD	EPA 300.0	
pH	6.95	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 3:10:00 PM	BAG	EPA 200.8	
TDS	2892	mg/L	10	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:10:00 PM	BAG	EPA 200.8	

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Client: JACOBS
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Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-009	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P19	Sampling Time	12:45 PM	Extraction Date			
Matrix	Water	Sample Location	P19				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.425	mg/L	0.02	10/18/2018 11:48:00 AM	TLM	SM4500NH3G	
Barium	0.0923	mg/L	0.001	10/30/2018 3:13:00 PM	BAG	EPA 200.8	
Chloride	3190	mg/L	50	10/15/2018 11:18:00 AM	LMD	EPA 300.0	
Conductivity	13900	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	1.96	mg/L	0.02	10/30/2018 3:39:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 3:08:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 3:08:00 PM	LMD	EPA 300.0	
pH	6.76	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.00165	mg/L	0.001	10/30/2018 3:13:00 PM	BAG	EPA 200.8	
TDS	6830	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:13:00 PM	BAG	EPA 200.8	

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Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-010	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P05	Sampling Time	1:15 PM	Extraction Date			
Matrix	Water	Sample Location	P05				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018 11:50:00 AM	TLM	SM4500NH3G	
Barium	0.545	mg/L	0.001	10/30/2018 3:16:00 PM	BAG	EPA 200.8	
Chloride	1980	mg/L	10	10/18/2018 1:38:00 PM	LMD	EPA 300.0	
Conductivity	8530	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.647	mg/L	0.001	10/30/2018 3:16:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 11:34:00 AM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 11:34:00 AM	LMD	EPA 300.0	
pH	7.15	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 3:16:00 PM	BAG	EPA 200.8	
TDS	3780	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:16:00 PM	BAG	EPA 200.8	

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Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-011	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P06	Sampling Time	1:45 PM	Extraction Date			
Matrix	Water	Sample Location	P06				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.508	mg/L	0.02	10/18/2018 11:51:00 AM	TLM	SM4500NH3G	
Barium	0.177	mg/L	0.001	10/30/2018 3:18:00 PM	BAG	EPA 200.8	
Chloride	37.1	mg/L	0.2	10/15/2018 1:45:00 PM	LMD	EPA 300.0	
Conductivity	926	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	1.25	mg/L	0.02	10/30/2018 3:42:00 PM	BAG	EPA 200.8	
NO3/N	<0.2	mg/L	0.2	10/12/2018 1:45:00 PM	LMD	EPA 300.0	
NO2/N	<0.2	mg/L	0.2	10/12/2018 1:45:00 PM	LMD	EPA 300.0	
pH	7.26	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 3:18:00 PM	BAG	EPA 200.8	
TDS	390	mg/L	5	10/18/2018 2:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:18:00 PM	BAG	EPA 200.8	

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Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-012	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-P27	Sampling Time	2:30 PM	Extraction Date			
Matrix	Water	Sample Location	P27				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018 11:52:00 AM	TLM	SM4500NH3G	
Barium	2.17	mg/L	0.02	10/30/2018 3:44:00 PM	BAG	EPA 200.8	
Chloride	6670	mg/L	100	10/13/2018 12:24:00 PM	LMD	EPA 300.0	
Conductivity	22000	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.333	mg/L	0.001	10/30/2018 3:21:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 6:28:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 6:28:00 PM	LMD	EPA 300.0	
pH	7.04	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.00101	mg/L	0.001	10/30/2018 3:21:00 PM	BAG	EPA 200.8	
TDS	10700	mg/L	5	10/19/2018 3:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:21:00 PM	BAG	EPA 200.8	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-013	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM
Client Sample ID	1810-LBAR-P20B	Sampling Time	3:00 PM	Extraction Date	
Matrix	Water	Sample Location	P20B		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	37.0	mg/L	0.8	10/25/2018 1:22:00 PM	TLM	SM4500NH3G	
Barium	0.148	mg/L	0.001	10/30/2018 3:24:00 PM	BAG	EPA 200.8	
Chloride	1980	mg/L	10	10/13/2018 10:26:00 PM	LMD	EPA 300.0	
Conductivity	8770	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	2.45	mg/L	0.02	10/30/2018 3:47:00 PM	BAG	EPA 200.8	
NO3/N	7.44	mg/L	5	10/12/2018 12:57:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 12:17:00 AM	LMD	EPA 300.0	
pH	6.98	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	ND	mg/L	0.001	10/30/2018 3:24:00 PM	BAG	EPA 200.8	
TDS	4370	mg/L	5	10/19/2018 3:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:24:00 PM	BAG	EPA 200.8	

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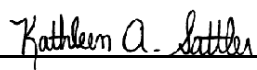
Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report

Sample Number	181011036-014	Sampling Date	10/10/2018	Date/Time Received	10/11/2018 9:20 AM		
Client Sample ID	1810-LBAR-SAFD	Sampling Time	5:00 PM	Extraction Date			
Matrix	Water	Sample Location	SAFD				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	64.1	mg/L	0.8	10/25/2018 1:24:00 PM	TLM	SM4500NH3G	
Barium	0.0339	mg/L	0.001	10/30/2018 3:26:00 PM	BAG	EPA 200.8	
Chloride	1890	mg/L	10	10/13/2018 10:59:00 PM	LMD	EPA 300.0	
Conductivity	18300	µmhos/cm	10	10/15/2018 2:20:00 PM	NDE	SM2510B	
Manganese	0.208	mg/L	0.001	10/30/2018 3:26:00 PM	BAG	EPA 200.8	
NO3/N	<0.1	mg/L	0.1	10/12/2018 1:14:00 PM	LMD	EPA 300.0	
NO2/N	<0.1	mg/L	0.1	10/12/2018 1:14:00 PM	LMD	EPA 300.0	
pH	8.41	ph Units		10/11/2018 4:30:00 PM	NDE	SM 4500pH-B	
Selenium	0.0119	mg/L	0.001	10/30/2018 3:26:00 PM	BAG	EPA 200.8	
TDS	11300	mg/L	5	10/19/2018 3:00:00 PM	BAS	SM 2540C	
Thallium	ND	mg/L	0.001	10/30/2018 3:26:00 PM	BAG	EPA 200.8	

Authorized Signature


Kathleen A. Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Manganese	0.0487	mg/L	0.05	97.4	85-115	10/25/2018	10/30/2018
AMMONIA-NITROGEN	0.191	mg/L	0.2	95.5	90-110	10/18/2018	10/18/2018
AMMONIA-NITROGEN	0.193	mg/L	0.2	96.5	90-110	10/25/2018	10/25/2018
AMMONIA-NITROGEN	0.199	mg/L	0.2	99.5	90-110	10/25/2018	10/25/2018
Chloride	4.12	mg/L	4	103.0	90-110	10/12/2018	10/12/2018
Chloride	4.12	mg/L	4	103.0	90-110	10/15/2018	10/15/2018
Chloride	3.96	mg/L	4	99.0	90-110	10/18/2018	10/18/2018
AMMONIA-NITROGEN	0.195	mg/L	0.2	97.5	90-110	10/18/2018	10/18/2018
Conductivity	724	µohms/cm	700	103.4	90-110	10/15/2018	10/15/2018
Thallium	0.0507	mg/L	0.05	101.4	85-115	10/25/2018	10/30/2018
NO2/N	3.97	mg/L	4	99.3	90-110	10/12/2018	10/12/2018
NO2/N	3.92	mg/L	4	98.0	90-110	10/15/2018	10/15/2018
NO3/N	3.99	mg/L	4	99.8	90-110	10/12/2018	10/12/2018
NO3/N	4.07	mg/L	4	101.8	90-110	10/15/2018	10/15/2018
Selenium	0.0442	mg/L	0.05	88.4	85-115	10/25/2018	10/30/2018
TDS	503	mg/L	500	100.6	80-120	10/18/2018	10/18/2018
TDS	498	mg/L	500	99.6	80-120	10/19/2018	10/19/2018
Conductivity	735	µohms/cm	700	105.0	90-110	10/12/2018	10/12/2018

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181009021-001A	NO3/N	<0.1	3.62	mg/L	4	90.5	80-120	10/12/2018	10/12/2018
181011015-002	AMMONIA-NITROGEN	0.464	0.651	mg/L	0.2	93.5	80-120	10/18/2018	10/18/2018
181017010-002	AMMONIA-NITROGEN	0.418	0.596	mg/L	0.2	89.0	80-120	10/25/2018	10/25/2018
181022011-002	AMMONIA-NITROGEN	0.882	1.06	mg/L	0.2	89.0	80-120	10/25/2018	10/25/2018
181018021-001	Chloride	0.806	5.20	mg/L	4	109.9	80-120	10/18/2018	10/18/2018
181009021-001A	Chloride	3.50	7.15	mg/L	4	91.3	80-120	10/12/2018	10/12/2018
181015022-002	AMMONIA-NITROGEN	0.752	0.945	mg/L	0.2	96.5	80-120	10/18/2018	10/18/2018
181011036-001A	Manganese	0.0296	0.0827	mg/L	0.05	106.2	70-130	10/25/2018	10/30/2018
181011036-001A	Thallium	ND	0.0513	mg/L	0.05	102.6	70-130	10/25/2018	10/30/2018
181009038-001A	NO3/N	1.55	5.58	mg/L	4	100.8	80-120	10/15/2018	10/15/2018
181009038-001A	NO2/N	<0.1	3.97	mg/L	4	99.3	80-120	10/15/2018	10/15/2018
181009021-001A	NO2/N	<0.1	3.70	mg/L	4	92.5	80-120	10/12/2018	10/12/2018
181011036-001A	Selenium	ND	0.0482	mg/L	0.05	96.4	70-130	10/25/2018	10/30/2018

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:Cert0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report Quality Control Data

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181011036-005	TDS	3590	4166	mg/L	500	115.2	80-120	10/18/2018	10/18/2018
181011053-001	TDS	138	618	mg/L	500	96.0	80-120	10/19/2018	10/19/2018
181009038-001A	Chloride	0.978	4.77	mg/L	4	94.8	80-120	10/15/2018	10/15/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
NO3/N	3.66	mg/L	4	91.5	1.1	0-20	10/12/2018	10/12/2018
AMMONIA-NITROGEN	0.644	mg/L	0.2	90.0	1.1	0-25	10/18/2018	10/18/2018
AMMONIA-NITROGEN	0.594	mg/L	0.2	88.0	0.3	0-25	10/25/2018	10/25/2018
AMMONIA-NITROGEN	1.05	mg/L	0.2	84.0	0.9	0-25	10/25/2018	10/25/2018
Chloride	5.09	mg/L	4	107.1	2.1	0-20	10/18/2018	10/18/2018
Chloride	7.20	mg/L	4	92.5	0.7	0-20	10/12/2018	10/12/2018
AMMONIA-NITROGEN	0.951	mg/L	0.2	99.5	0.6	0-25	10/18/2018	10/18/2018
Manganese	0.0822	mg/L	0.05	105.2	0.6	0-20	10/25/2018	10/30/2018
Thallium	0.0506	mg/L	0.05	101.2	1.4	0-20	10/25/2018	10/30/2018
NO3/N	5.30	mg/L	4	93.8	5.1	0-20	10/15/2018	10/15/2018
NO2/N	3.72	mg/L	4	93.0	6.5	0-20	10/15/2018	10/15/2018
NO2/N	3.77	mg/L	4	94.3	1.9	0-20	10/12/2018	10/12/2018
Selenium	0.0541	mg/L	0.05	108.2	11.5	0-20	10/25/2018	10/30/2018
TDS	4130	mg/L	500	108.0	6.5	0-20	10/18/2018	10/18/2018
TDS	558	mg/L	500	84.0	13.3	0-20	10/19/2018	10/19/2018
Chloride	4.54	mg/L	4	89.1	4.9	0-20	10/15/2018	10/15/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018	10/18/2018
Ammonia-nitrogen	<0.02	mg/L	0.02	10/25/2018	10/25/2018
Ammonia-nitrogen	<0.02	mg/L	0.02	10/25/2018	10/25/2018
Ammonia-nitrogen	<0.02	mg/L	0.02	10/18/2018	10/18/2018
Chloride	ND	mg/L	0.1	10/12/2018	10/12/2018
Chloride	ND	mg/L	0.1	10/15/2018	10/15/2018
Chloride	ND	mg/L	0.1	10/18/2018	10/18/2018
Conductivity	ND	µmhos/cm	10	10/15/2018	10/15/2018
Conductivity	<1	µmhos/cm	10	10/12/2018	10/12/2018
Manganese	ND	mg/L	0.001	10/25/2018	10/30/2018

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: CRAIG SAUER

Batch #: 181011036
Project Name: LBAR

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
NO2/N	ND	mg/L	0.1	10/12/2018	10/12/2018
NO2/N	ND	mg/L	0.1	10/15/2018	10/15/2018
NO3/N	ND	mg/L	0.1	10/12/2018	10/12/2018
NO3/N	ND	mg/L	0.1	10/15/2018	10/15/2018
Selenium	ND	mg/L	0.001	10/25/2018	10/30/2018
TDS	<5	mg/L	5	10/18/2018	10/18/2018
TDS	<5	mg/L	5	10/19/2018	10/19/2018
Thallium	ND	mg/L	0.001	10/25/2018	10/30/2018

Duplicate

Sample Number	Parameter	Sample Result	Duplicate Result	Units	%RPD	AR %RPD	Prep Date	Analysis Date
181011036-006	Conductivity	19900	19900	µmhos/cm	0.0	0-20	10/15/2018	10/15/2018
181010073-003	Conductivity	883	888	µmhos/cm	0.6	0-20	10/12/2018	10/12/2018

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

Sample #: 181011036-001 **Customer Sample #:** 1810-LBAR-P09

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 8:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-002 **Customer Sample #:** 1810-LBAR-PW

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 9:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-003 **Customer Sample #:** 1810-LBAR-P12

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 9:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-004 **Customer Sample #:** 1810-LBAR-P13

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 10:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-005 **Customer Sample #:** 1810-LBAR-SA14

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 10:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-005A **Customer Sample #:** 1810-LBAR-SA14MS

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 10:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-005B **Customer Sample #:** 1810-LBAR-SA14MSD

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 10:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-006 **Customer Sample #:** 1810-LBAR-SA11

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 11:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-007 **Customer Sample #:** 1810-LBAR-SA10

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 11:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-008 **Customer Sample #:** 1810-LBAR-P25

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 12:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-009 **Customer Sample #:** 1810-LBAR-P19

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 12:45 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-010 **Customer Sample #:** 1810-LBAR-P05

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 1:15 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS
999 W RIVERSIDE AVE #500
SPOKANE WA 99201

Order ID: 181011036
Order Date: 10/11/2018

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

THALLIUM SPO S EPA 200.8 10/23/2018 Normal (~10 Days)

Sample #: 181011036-011 **Customer Sample #:** 1810-LBAR-P06

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 1:45 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-012 **Customer Sample #:** 1810-LBAR-P27

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 2:30 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 181011036

999 W RIVERSIDE AVE #500

Order Date: 10/11/2018

SPOKANE

WA

99201

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

Sample #: 181011036-013 **Customer Sample #:** 1810-LBAR-P20B

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 3:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Sample #: 181011036-014 **Customer Sample #:** 1810-LBAR-SAFD

Recv'd: ☒ **Matrix:** Water **Collector:** JONATHAN ESPINOZA **Date Collected:** 10/10/2018

Quantity: 3 **Date Received:** 10/11/2018 9:20:00 AM **Time Collected:** 5:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/23/2018	<u>Normal (~10 Days)</u>
BARIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	SM2510B	10/23/2018	<u>Normal (~10 Days)</u>
MANGANESE SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/23/2018	<u>Normal (~10 Days)</u>
pH	S	SM 4500pH-B	10/23/2018	<u>Normal (~10 Days)</u>
SELENIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/23/2018	<u>Normal (~10 Days)</u>
THALLIUM SPO	S	EPA 200.8	10/23/2018	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

999 W RIVERSIDE AVE #500

SPOKANE

WA

99201

Order ID: 181011036

Order Date: 10/11/2018

Contact Name: CRAIG SAUER

Project Name: LBAR

Comment:

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	0.8/0.9
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Labels and chain agree?	Yes
Total number of containers?	48



Anatek
Labs,
Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

31011 036 CH2R Last Due 10/23/2018

1st SAMP 10/10/201 1st RCVD 10/11/2018

L BAR

Company Name: Jacobs			Project Manager: Craig Sauer		
Address: 999 W Riverside Ave #500			Project Name & #: LBAR		
City: Spokane	State: WA	Zip: 99201	Email Address: craig.sauer@jacobs.com		
Phone: 509-464-7200			Purchase Order #:		
Fax:			Sampler Name & phone: Jon Espinoza 734-363-4587		

Turn Around Time & Reporting

Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other*
*All rush order requests must be prior approved.
☐ Phone
☐ Mail
☐ Fax
☐ Email

Provide Sample Description				List Analyses Requested										Note Special Instructions/Comments				
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative	# of Containers	Sample Volume	NH ₃ - N	CO ₂ - C	Si	TDS	pH	NO ₂ - N	NO ₃ - N	TP	MS	MSP	Other	
1	1810-LBAR-P09	10/10/18 845	Water		3		X	X	X									
2	1810-LBAR-PW	10/10/18 900			3		X	X	X									
3	1810-LBAR-P12	10/10/18 945			3		X	X	X									
4	1810-LBAR-P13	10/10/18 1030			3		X	X	X									
5	1810-LBAR-SA14	10/10/18 1045			9		X	X	X									
6	1810-LBAR-SA11	10/10/18 1130			3		X	X	X									
7	1810-LBAR-SA10	10/10/18 1145			3		X	X	X									
8	1810-LBAR-P25	10/10/18 1200			3		X	X	X									
9	1810-LBAR-P19	10/10/18 1245			3		X	X	X									
10	1810-LBAR-P05	10/10/18 1315			3		X	X	X									
11	1810-LBAR-P20	10/10/18 1345			3		X	X	X									
12	1810-LBAR-P27	10/10/18 1430			3		X	X	X									
13	1810-LBAR-P208	10/10/18 1500			3		X	X	X									

Relinquished by	Printed Name	Signature	Company	Date	Time
Relinquished by	Jonathan Espinoza	<i>[Signature]</i>	Jacobs	10/11/18	920
Received by	Anatek	<i>[Signature]</i>	Anatek	10/11/18	9:20
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact? ☒ Y ☐ N
Labels & Chains Agree? ☒ Y ☐ N
Containers Sealed? ☒ Y ☐ N
VOC Head Space? ☒ Y ☐ N

W/I/C

Temperature (°C) **0.8/0.9 IF#1**
Preservative: **H₂SO₄ R369-342**
pH **P18285-3N**
Date & Time: **10-11-18 1500**
Inspected By: **W/I/C**

pg 1 of 2

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: Jacobs

Address: 999 W Riverside Ave #500

City: Spokane State: WA Zip: 99201

Phone: 509-464-7200

Fax: _____

Sampler Name & phone: Jon Espinoza 734-363-4587

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

[illegible]

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N

Temperature (°C) 0.8/0.9 244/

Preservative:

Date & Time:

Inspected By:

pg 2 of 2

CASE NARRATIVE

June 6, 2019

Lab Name: Anatek Labs, Inc.

Project Tracking No.: NWA—LBAR

Anatek Batch: 190501026

Project Summary: Fourteen water samples were received 5/1/19 for analysis of ammonia, chloride and TDS.

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	Y	See Comments Section

1. Holding Time Requirements

No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LSC/MS/MSD) Recovery Requirements

No problems were encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

7. Internal Standard(s) Response Requirements

No problems encountered.

8. Comments

**I certify that this data package is in compliance with the terms and conditions of the contract.
Release of the data contained in this data package has been authorized by the Laboratory
Manager or his designee.**

Approved by: Kathleen A. Sattler

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	190501026-001	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP20B	Sampling Time	7:30 AM	Extraction Date			
Matrix	Water	Sample Location	P20B				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	16.6	mg/L	0.2	5/6/2019 12:48:00 PM	KAS	SM4500NH3G	
Chloride	1670	mg/L	10	5/14/2019 1:05:00 PM	LMC	EPA 300.0	
TDS	4450	mg/L	10	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-002	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP19	Sampling Time	7:50 AM	Extraction Date			
Matrix	Water	Sample Location	P19				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.792	mg/L	0.02	5/6/2019 11:46:00 AM	KAS	SM4500NH3G	
Chloride	6200	mg/L	50	5/14/2019 1:22:00 PM	LMC	EPA 300.0	
TDS	10400	mg/L	10	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-003	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP25	Sampling Time	8:25 AM	Extraction Date			
Matrix	Water	Sample Location	P25				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.703	mg/L	0.02	5/6/2019 11:51:00 AM	KAS	SM4500NH3G	
Chloride	645	mg/L	5	5/14/2019 1:55:00 PM	LMC	EPA 300.0	
TDS	2190	mg/L	10	5/6/2019 5:00:00 PM	NDE	SM 2540C	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	190501026-004	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP05	Sampling Time	9:20 AM	Extraction Date			
Matrix	Water	Sample Location	P05				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	5/6/2019 11:52:00 AM	KAS	SM4500NH3G	
Chloride	1890	mg/L	10	5/14/2019 2:11:00 PM	LMC	EPA 300.0	
TDS	3340	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-005	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP06	Sampling Time	9:40 AM	Extraction Date			
Matrix	Water	Sample Location	P06				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.630	mg/L	0.02	5/6/2019 11:53:00 AM	KAS	SM4500NH3G	
Chloride	100	mg/L	0.4	5/14/2019 9:06:00 PM	LMC	EPA 300.0	
TDS	450	mg/L	10	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-006	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP27	Sampling Time	10:00 AM	Extraction Date			
Matrix	Water	Sample Location	P27				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.218	mg/L	0.02	5/6/2019 11:55:00 AM	KAS	SM4500NH3G	
Chloride	6920	mg/L	100	5/14/2019 2:44:00 PM	LMC	EPA 300.0	
TDS	11800	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	190501026-007	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP12	Sampling Time	10:45 AM	Extraction Date			
Matrix	Water	Sample Location	P12				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	5/6/2019 11:56:00 AM	KAS	SM4500NH3G	
Chloride	8.26	mg/L	0.1	5/14/2019 3:01:00 PM	LMC	EPA 300.0	
TDS	764	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-008	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP13	Sampling Time	11:20 AM	Extraction Date			
Matrix	Water	Sample Location	P13				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	36.7	mg/L	0.2	5/6/2019 12:51:00 PM	KAS	SM4500NH3G	
Chloride	1150	mg/L	5	5/14/2019 3:17:00 PM	LMC	EPA 300.0	
TDS	5150	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-009	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARSA14	Sampling Time	11:50 AM	Extraction Date			
Matrix	Water	Sample Location	SA14				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	18.2	mg/L	0.2	5/6/2019 12:53:00 PM	KAS	SM4500NH3G	
Chloride	952	mg/L	0.1	5/14/2019 4:24:00 PM	LMC	EPA 300.0	
TDS	3550	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	190501026-010	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARSA11	Sampling Time	12:05 PM	Extraction Date			
Matrix	Water	Sample Location	SA11				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	47.0	mg/L	0.2	5/6/2019 12:56:00 PM	KAS	SM4500NH3G	
Chloride	6120	mg/L	20	5/14/2019 4:14:00 PM	LMC	EPA 300.0	
TDS	15400	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-011	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARSA10	Sampling Time	12:20 PM	Extraction Date			
Matrix	Water	Sample Location	SA10				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	110	mg/L	0.2	5/6/2019 12:58:00 PM	KAS	SM4500NH3G	
Chloride	6440	mg/L	20	5/14/2019 4:57:00 PM	LMC	EPA 300.0	
TDS	17500	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-012	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARPW	Sampling Time	12:40 PM	Extraction Date			
Matrix	Water	Sample Location	PW				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.166	mg/L	0.02	5/6/2019 12:02:00 PM	KAS	SM4500NH3G	
Chloride	0.794	mg/L	0.1	5/14/2019 5:14:00 PM	LMC	EPA 300.0	
TDS	205	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

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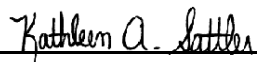
Client: JACOBS **Batch #:** 190501026
Address: 999 W RIVERSIDE AVE #500 **Project Name:** ALCOA - NWA LBAR
SPOKANE, WA 99201
Attn: REUBEN GREER

Analytical Results Report

Sample Number	190501026-013	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARP09	Sampling Time	1:15 PM	Extraction Date			
Matrix	Water	Sample Location	P09				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	1.60	mg/L	0.02	5/6/2019 12:03:00 PM	KAS	SM4500NH3G	
Chloride	588	mg/L	2	5/15/2019 12:37:00 PM	LMC	EPA 300.0	
TDS	1440	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Sample Number	190501026-014	Sampling Date	4/30/2019	Date/Time Received	5/1/2019	10:45 AM	
Client Sample ID	1904LBARSAFD	Sampling Time	2:00 PM	Extraction Date			
Matrix	Water	Sample Location	SAFD				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	17.3	mg/L	0.2	5/6/2019 1:01:00 PM	KAS	SM4500NH3G	
Chloride	961	mg/L	5	5/17/2019 11:54:00 AM	LMC	EPA 300.0	
TDS	3440	mg/L	5	5/6/2019 5:00:00 PM	NDE	SM 2540C	

Authorized Signature


Kathleen A. Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
TDS	501	mg/L	500	100.2	80-120	5/6/2019	5/6/2019
Chloride	3.85	mg/L	4	96.3	90-110	5/17/2019	5/17/2019
Chloride	3.83	mg/L	4	95.8	90-110	5/15/2019	5/15/2019
Chloride	3.65	mg/L	4	91.3	90-110	5/14/2019	5/14/2019
AMMONIA-NITROGEN	0.208	mg/L	0.2	104.0	90-110	5/6/2019	5/6/2019

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Chloride	3.84	mg/L	4	96.0	0.3	0-20	5/17/2019	5/17/2019
Chloride	3.66	mg/L	4	91.5	0.3	0-20	5/14/2019	5/14/2019
TDS	531	mg/L	500	106.2	5.8	0-20	5/6/2019	5/6/2019

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
190501026-014	TDS	3440	3900	mg/L	500	92.0	80-120	5/6/2019	5/6/2019
190502038-006A	Chloride	ND	3.45	mg/L	4	86.3	80-120	5/15/2019	5/15/2019
190430005-002	AMMONIA-NITROGEN	<0.02	0.204	mg/L	0.2	102.0	80-120	5/6/2019	5/6/2019

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
TDS	3860	mg/L	500	84.0	9.1	0-20	5/6/2019	5/6/2019
Chloride	3.78	mg/L	4	94.5	9.1	0-20	5/15/2019	5/15/2019
AMMONIA-NITROGEN	0.197	mg/L	0.2	98.5	3.5	0-25	5/6/2019	5/6/2019

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Ammonia-nitrogen	<0.02	mg/L	0.02	5/6/2019	5/6/2019
Chloride	ND	mg/L	0.1	5/17/2019	5/17/2019
Chloride	ND	mg/L	0.1	5/15/2019	5/15/2019
Chloride	ND	mg/L	0.1	5/14/2019	5/14/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 190501026
Project Name: ALCOA - NWA LBAR

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
TDS	<5	mg/L	5	5/6/2019	5/6/2019

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: JACOBS

Order ID: 190501026

999 W RIVERSIDE AVE #500

Order Date: 5/1/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 190501026-001 **Customer Sample #:** 1904LBARP20B

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM

Time Collected: 7:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-002 **Customer Sample #:** 1904LBARP19

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM

Time Collected: 7:50 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-003 **Customer Sample #:** 1904LBARP25

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER

Date Collected: 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM

Time Collected: 8:25 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 190501026

999 W RIVERSIDE AVE #500

Order Date: 5/1/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 190501026-004 **Customer Sample #:** 1904LBARP05

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 9:20 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-005 **Customer Sample #:** 1904LBARP06

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 9:40 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-006 **Customer Sample #:** 1904LBARP27

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 10:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-007 **Customer Sample #:** 1904LBARP12

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 10:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 190501026

999 W RIVERSIDE AVE #500

Order Date: 5/1/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-008 **Customer Sample #:** 1904LBARP13

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019
Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 11:20 AM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-009 **Customer Sample #:** 1904LBARSA14

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019
Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 11:50 AM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-010 **Customer Sample #:** 1904LBARSA11

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019
Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 12:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 190501026

999 W RIVERSIDE AVE #500

Order Date: 5/1/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 190501026-010A **Customer Sample #:** 1904LBARSA11 MS

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 12:05 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-010B **Customer Sample #:** 1904LBARSA11 MSD

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 12:05 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-011 **Customer Sample #:** 1904LBARSA10

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 12:20 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-012 **Customer Sample #:** 1904LBARPW

Recv'd: ☒ **Matrix:** Water **Collector:** REUBEN GREER **Date Collected:** 4/30/2019

Quantity: 2 **Date Received:** 5/1/2019 10:45:00 AM **Time Collected:** 12:40 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 190501026

999 W RIVERSIDE AVE #500

Order Date: 5/1/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-013 Customer Sample #: 1904LBARP09

Recv'd: ☒ Matrix: Water Collector: REUBEN GREER Date Collected: 4/30/2019

Quantity: 2 Date Received: 5/1/2019 10:45:00 AM Time Collected: 1:15 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

Sample #: 190501026-014 Customer Sample #: 1904LBARSADF

Recv'd: ☒ Matrix: Water Collector: REUBEN GREER Date Collected: 4/30/2019

Quantity: 2 Date Received: 5/1/2019 10:45:00 AM Time Collected: 2:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	5/13/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	5/13/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	5/13/2019	<u>Normal (~10 Days)</u>

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	3.7
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Labels and chain agree?	Yes
Total number of containers?	32



Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

90501 026 **CH2R** Last Due **5/13/2019**
st SAMP 4/30/2019 1st RCVD 5/1/2019
L.COA - NWA LBAR

PAGE 1 OF 2

Company Name: JACOBS
Address: 999 W RIVERSIDE AVE SUITE 500
City: SPOKANE State: WA Zip: 99201
Phone: 509-464-7215
Fax: _____

Project Manager: REUBEN GREER
Project Name & #: LCOA - NWA LBAR
Email Address: reuben.greer@jacobs.com
Purchase Order #: _____
Sampler Name & phone: _____

Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other* _____

*All rush order requests must be prior approved.

Phone _____
Mail _____
Fax _____
Email _____

Provide Sample Description				List Analyses Requested										Note Special Instructions/Comments		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative: # of Containers	Sample Volume	NH3-N	TDS, CI									
1	1904LBARP20B	43019/7:30	W	2		X	X									
2	1904LBARP19	43019/7:50		1		X	X									
3	1904LBARP25	43019/8:25				X	X									
4	1904LBARP05	43019/9:20				X	X									
5	1904LBARP06	43019/9:40				X	X									
6	1904LBARP27	43019/10:00				X	X									
7	1904LBARP12	43019/10:45				X	X									
8	1904LBARP13	43019/11:20				X	X									
9	1904LBARSA14	43019/11:50		✓		X	X									
10	1904LBARSA11	43019/12:05		6		X	X									
11	1904LBARSA10	43019/12:20		2		X	X									
12	1904LBARPW	43019/12:40				X	X									
13	1904LBARP09	43019/13:15		✓		X	X									

MS/MSD

SWBS

Inspection Checklist	
Received Intact?	☒ Y ☐ N
Labels & Chains Agree?	☒ Y ☐ N
Containers Sealed?	☒ Y ☐ N
VOC Head Space?	☒ Y ☐ N
Temperature (°C): <u>3.7 deg-04</u>	
Preservative: <u>H2SO4 R379-1 <2</u>	
pH <u>P18285-3H</u>	
Date & Time: <u>5-1-19 1330</u>	
Inspected By: <u>WNY</u>	

	Printed Name	Signature	Company	Date	Time
Relinquished by	REUBEN GREER	<i>[Signature]</i>	JACOBS	5-1-19	1045
Received by	ANNE LOCK	<i>[Signature]</i>	Anatek	5-1-19	1045
Relinquished by					
Received by					
Relinquished by					
Received by					



Chain of Custody Record

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504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

90501 026 CH2R Last Due 5/13/2019
1st SAMP 4/30/2019 1st RCVD 5/1/2019
LCOA - NWA LBAR

PAGE 2 of 2

[illegible]

CASE NARRATIVE

November 7, 2019

Lab Name: Anatek Labs, Inc.

Project Tracking No.: LBAR-NWA

Anatek Batch: 191008076

Project Summary: Fourteen water samples were received 10/8/19 for analysis of ammonia, chloride, and TDS.

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	Y	See Comments Section

1. Holding Time Requirements

Initial analysis of all samples performed within holding time requirements. No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LSC/MS/MSD) Recovery Requirements

No problems were encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

7. Internal Standard(s) Response Requirements

No problems encountered.

8. Comments

**I certify that this data package is in compliance with the terms and conditions of the contract.
Release of the data contained in this data package has been authorized by the Laboratory
Manager or his designee.**

Approved by: Kathleen A. Sattler

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 191008076
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	191008076-001	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM
Client Sample ID	1910LBARP20B	Sampling Time	8:20 AM	Extraction Date		
Matrix	Water	Sample Location	LBARP20B			
Comments						
						</

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 191008076
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	191008076-004	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARP06	Sampling Time	10:15 AM	Extraction Date			
Matrix	Water	Sample Location	LBARP06				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.147	mg/L	0.02	10/16/2019 2:52:00 PM	TLM	SM4500NH3G	
Chloride	35.5	mg/L	0.4	10/16/2019 8:49:00 PM	LMC	EPA 300.0	
TDS	526	mg/L	10	10/14/2019 3:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-005	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARP27	Sampling Time	10:50 AM	Extraction Date			
Matrix	Water	Sample Location	LBARP27				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.0266	mg/L	0.02	10/16/2019 2:54:00 PM	TLM	SM4500NH3G	
Chloride	6850	mg/L	50	10/16/2019 3:34:00 PM	LMC	EPA 300.0	
TDS	10600	mg/L	5	10/14/2019 2:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-006	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARP25	Sampling Time	11:20 AM	Extraction Date			
Matrix	Water	Sample Location	LBARP25				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.687	mg/L	0.02	10/16/2019 2:55:00 PM	TLM	SM4500NH3G	
Chloride	837	mg/L	5	10/16/2019 3:50:00 PM	LMC	EPA 300.0	
TDS	1580	mg/L	10	10/14/2019 2:00:00 PM	NDE	SM 2540C	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 191008076
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	191008076-007	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARP09	Sampling Time	12:20 PM	Extraction Date			
Matrix	Water	Sample Location	LBARP09				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	0.387	mg/L	0.02	10/16/2019 2:56:00 PM	TLM	SM4500NH3G	
Chloride	494	mg/L	2.5	10/16/2019 4:07:00 PM	LMC	EPA 300.0	
TDS	1070	mg/L	5	10/14/2019 2:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-008	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARPW	Sampling Time	12:30 PM	Extraction Date			
Matrix	Water	Sample Location	LBARPW				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	<0.02	mg/L	0.02	10/16/2019 2:57:00 PM	TLM	SM4500NH3G	
Chloride	1.16	mg/L	0.1	10/16/2019 6:53:00 PM	LMC	EPA 300.0	
TDS	241	mg/L	5	10/14/2019 3:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-009	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARSA10	Sampling Time	12:50 PM	Extraction Date			
Matrix	Water	Sample Location	LBARSA10				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	514	mg/L	10	10/16/2019 4:06:00 PM	TLM	SM4500NH3G	
Chloride	5660	mg/L	25	10/16/2019 9:38:00 PM	LMC	EPA 300.0	
TDS	17500	mg/L	5	10/14/2019 2:00:00 PM	NDE	SM 2540C	

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 191008076
Project Name: ALCOA - NWA LBAR

Analytical Results Report

Sample Number	191008076-010	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARSA11	Sampling Time	1:05 PM	Extraction Date			
Matrix	Water	Sample Location	LBARSA11				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	105	mg/L	1	10/16/2019 3:54:00 PM	TLM	SM4500NH3G	
Chloride	5150	mg/L	20	10/16/2019 9:05:00 PM	LMC	EPA 300.0	
TDS	12500	mg/L	5	10/14/2019 3:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-011	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARSA14	Sampling Time	1:40 PM	Extraction Date			
Matrix	Water	Sample Location	LBARSA14				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	19.2	mg/L	1	10/16/2019 3:56:00 PM	TLM	SM4500NH3G	
Chloride	868	mg/L	5	10/16/2019 4:23:00 PM	LMC	EPA 300.0	
TDS	3370	mg/L	5	10/14/2019 3:00:00 PM	NDE	SM 2540C	

Sample Number	191008076-012	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM	
Client Sample ID	1910LBARP13	Sampling Time	2:00 PM	Extraction Date			
Matrix	Water	Sample Location	LBARP13				
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Ammonia-nitrogen	43.3	mg/L	1	10/16/2019 3:59:00 PM	TLM	SM4500NH3G	
Chloride	1170	mg/L	5	10/16/2019 4:40:00 PM	LMC	EPA 300.0	
TDS	5370	mg/L	5	10/14/2019 3:00:00 PM	NDE	SM 2540C	

Anatek Labs, Inc.

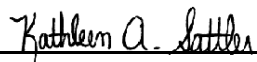
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Client: JACOBS **Batch #:** 191008076
Address: 999 W RIVERSIDE AVE #500 **Project Name:** ALCOA - NWA LBAR
SPOKANE, WA 99201
Attn: REUBEN GREER

Analytical Results Report

Sample Number	191008076-013	Sampling Date	10/8/2019	Date/Time Received	10/8/2019	4:10 PM
Client Sample ID	1910LBARSFDF	Sampling Time	3:00 PM	Extraction Date		
Matrix	Water	Sample Location	LBARSFDF			
Comments						

Authorized Signature


Kathleen A. Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: JACOBS
Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201
Attn: REUBEN GREER

Batch #: 191008076
Project Name: ALCOA - NWA LBAR

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Chloride	4.24	mg/L	4	106.0	90-110	10/18/2019	10/18/2019
AMMONIA-NITROGEN	0.206	mg/L	0.2	103.0	90-110	10/16/2019	10/16/2019
Chloride	4.02	mg/L	4	100.5	90-110	10/16/2019	10/16/2019
TDS	498	mg/L	500	99.6	80-120	10/14/2019	10/14/2019

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
TDS	505	mg/L	500	101.0	1.4	0-20	10/14/2019	10/14/2019

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
191008076-013	TDS	14600	15200	mg/L	500	120.0	80-120	10/14/2019	10/14/2019
191008076-008BA	Chloride	1.16	4.76	mg/L	4	90.0	80-120	10/16/2019	10/16/2019
191018033-001	Chloride	0.695	4.15	mg/L	4	86.4	80-120	10/18/2019	10/18/2019
191009035-002	AMMONIA-NITROGEN	0.0810	0.302	mg/L	0.2	110.5	80-120	10/16/2019	10/16/2019

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
TDS	15200	mg/L	500	120.0	0.0	0-20	10/14/2019	10/14/2019
Chloride	4.94	mg/L	4	94.5	3.7	0-20	10/16/2019	10/16/2019
Chloride	4.39	mg/L	4	92.4	5.6	0-20	10/18/2019	10/18/2019
AMMONIA-NITROGEN	0.300	mg/L	0.2	109.5	0.7	0-25	10/16/2019	10/16/2019

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Ammonia-nitrogen	<0.02	mg/L	0.02	10/16/2019	10/16/2019
Chloride	ND	mg/L	0.1	10/18/2019	10/18/2019
Chloride	ND	mg/L	0.1	10/16/2019	10/16/2019
TDS	<5	mg/L	5	10/14/2019	10/14/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:Cert0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: JACOBS

Batch #: 191008076

Address: 999 W RIVERSIDE AVE #500
SPOKANE, WA 99201

Project Name: ALCOA - NWA LBAR

Attn: REUBEN GREER

Analytical Results Report Quality Control Data

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: JACOBS

Order ID: 191008076

999 W RIVERSIDE AVE #500

Order Date: 10/8/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 191008076-001 **Customer Sample #:** 1910LBARP20B

Recv'd:



Matrix: Water

Collector:

Date Collected: 10/8/2019

Quantity: 2

Date Received: 10/8/2019 4:10:00 PM

Time Collected: 8:20 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-002 **Customer Sample #:** 1910LBARP19

Recv'd:



Matrix: Water

Collector:

Date Collected: 10/8/2019

Quantity: 2

Date Received: 10/8/2019 4:10:00 PM

Time Collected: 9:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-003 **Customer Sample #:** 1910LBARP05

Recv'd:



Matrix: Water

Collector:

Date Collected: 10/8/2019

Quantity: 2

Date Received: 10/8/2019 4:10:00 PM

Time Collected: 9:30 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS
999 W RIVERSIDE AVE #500
SPOKANE WA 99201

Order ID: 191008076
Order Date: 10/8/2019

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 191008076-004 **Customer Sample #:** 1910LBARP06

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 10:15 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-005 **Customer Sample #:** 1910LBARP27

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 10:50 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-006 **Customer Sample #:** 1910LBARP25

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 11:20 AM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-007 **Customer Sample #:** 1910LBARP09

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 12:20 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 191008076

999 W RIVERSIDE AVE #500

Order Date: 10/8/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-008 Customer Sample #: 1910LBARPW

Recv'd: ☒ Matrix: Water Collector: Date Collected: 10/8/2019
Quantity: 2 Date Received: 10/8/2019 4:10:00 PM Time Collected: 12:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-008A Customer Sample #: 1910LBARPW MS

Recv'd: ☒ Matrix: Water Collector: Date Collected: 10/8/2019
Quantity: 2 Date Received: 10/8/2019 4:10:00 PM Time Collected: 12:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-008B Customer Sample #: 1910LBARPW MSD

Recv'd: ☒ Matrix: Water Collector: Date Collected: 10/8/2019
Quantity: 2 Date Received: 10/8/2019 4:10:00 PM Time Collected: 12:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 191008076

999 W RIVERSIDE AVE #500

Order Date: 10/8/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

Sample #: 191008076-009 **Customer Sample #:** 1910LBARSA10

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 12:50 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-010 **Customer Sample #:** 1910LBARSA11

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 1:05 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-011 **Customer Sample #:** 1910LBARSA14

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 1:40 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-012 **Customer Sample #:** 1910LBARP13

Recv'd: ☒ **Matrix:** Water **Collector:** **Date Collected:** 10/8/2019

Quantity: 2 **Date Received:** 10/8/2019 4:10:00 PM **Time Collected:** 2:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>

Customer Name: JACOBS

Order ID: 191008076

999 W RIVERSIDE AVE #500

Order Date: 10/8/2019

SPOKANE

WA

99201

Contact Name: REUBEN GREER

Project Name: ALCOA - NWA LBAR

Comment:

CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-013 Customer Sample #: 1910LBARSFAD

Recv'd: ☒ Matrix: Water Collector: Date Collected: 10/8/2019
Quantity: 2 Date Received: 10/8/2019 4:10:00 PM Time Collected: 3:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

Sample #: 191008076-014 Customer Sample #: 1910LBARP12

Recv'd: ☒ Matrix: Water Collector: Date Collected: 10/8/2019
Quantity: 2 Date Received: 10/8/2019 4:10:00 PM Time Collected: 2:25 PM
Comment:

Test	Lab	Method	Due Date	Priority
AMMONIA-NITROGEN SPOA	S	SM4500NH3G	10/18/2019	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/18/2019	<u>Normal (~10 Days)</u>
SOLIDS-TDS SPO	S	SM 2540C	10/18/2019	<u>Normal (~10 Days)</u>

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	4.6
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Labels and chain agree?	Yes
Total number of containers?	32

Chain of Custody Record



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504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

91008 076 CH2R Last Due **10/18/2019**
1st SAMP 10/8/2019 1st RCVD 10/8/2019
ALCOA - NWA LBAR

Company Name: Jacobs		Project Manager: Reuben Greer	
Address: 999 W. Riverside Ave Ste 500		Project Name & #: ALCOA - NWA LBAR	
City: Spokane	State: WA	Email Address: reuben.greer@jacobs.com	
Phone: 509-464-7215	Zip: 99201	Purchase Order #:	
Fax:		Sampler Name & phone:	

Provide Sample Description			List Analyses Requested										Note Special Instructions/Comments		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative	Sample Volume	# of Containers	Company	Date	Time						
1	1910LBAR P203	10/8/19/0820	W		2	2	MS/MSD	10/8/19	1610						SWBS
2	1910LBAR P19	10/8/19/0900	W		2	2		10/8/19	1610						
3	1910LBAR P05	10/8/19/0930	W		2	2									
4	1910LBAR P06	10/8/19/1015	W		2	2									
5	1910LBAR P27	10/8/19/1050	W		2	2									
6	1910LBAR P25	10/8/19/1120	W		2	2									
7	1910LBAR P09	10/8/19/1220	W		2	2									
8	1910LBAR P01	10/8/19/1230	W		2	2									
9	1910LBAR SA10	10/8/19/1250	W		2	2									
10	1910LBAR SA11	10/8/19/1305	W		2	2									
11	1910LBAR SA14	10/8/19/1340	W		2	2									
12	1910LBAR P13	10/8/19/1400	W		2	2									
13	1910LBAR SA10	10/8/19/1500	W		2	2									

Relinquished by	Signature: K-E SE	Date: 10/8/19	Time: 1610
Received by	Signature: Anna Younger	Date: 10/8/19	Time: 1610
Relinquished by			
Received by			
Relinquished by			
Received by			

Inspection Checklist	
Received Intact?	Y
Labels & Chains Agree?	Y
Containers Sealed?	Y
VOC Head Space?	Y
h/p/c	
Temperature (°C): 4.6 Dia-04	
Preservative: Hg504 R386-3<2	
PA P18285-300	
Date & Time: 10-8-19 1730	
Inspected By: mg	



Chain of Custody Record

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Page 2 of 2

91008 076 **CH2R** Last Due 10/18/2019
1st SAMP 10/8/2019 1st RCVD 10/8/2019
ALCOA - NWA LBAR

Company Name:	Refer to Page 1	Project Manager:	Reuben Greer
Address:		Project Name & #:	
City:	State:	Zip:	Email Address :
Phone:	509-464-7215	Purchase Order #:	
Fax:		Sampler Name & phone:	

<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal ☐ *All rush order requests must be prior approved. ☐ Phone
☐ Next Day* ☐ Mail
☐ 2nd Day* ☐ Fax
☐ Other* ☐ Email

[illegible]

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WAE0919
Project: Alcoa L-Bar
Reported: 4/26/2021 16:02

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WAE0919-01	2005P12
WAE0919-02	2005P13
WAE0919-03	2005SA10
WAE0919-04	2005SA11
WAE0919-05	2005SA14
WAE0919-06	2005P09
WAE0919-07	2005PW
WAE0919-08	2005P05
WAE0919-09	2005P06
WAE0919-10	2005P19
WAE0919-11	2005P20B
WAE0919-12	2005P25
WAE0919-13	2005P27
WAE0919-14	2005FD

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	N	See Comments Section
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

The turbidity analysis was analyzed out of holding time for all samples.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

5. Method Blank Requirements

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The method blanks were non-detect for all analytes.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

I certify that this data package is in compliance with the terms and conditions of the contract.

Release of the data contained in this data package has been authorized by the Laboratory Manager or his or her designee.

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: 2005P12
Lab/Sample Number: WAE0919-01 Collect Date: 05/28/20 08:15
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.02	mg/L	0.0200	6/12/20 11:02	TLM	SM 4500-NH3 H	
Chloride	8.11	mg/L	0.100	6/16/20 0:04	ARC	EPA 300.0	
Nitrate-N	1.08	mg/L	0.100	5/29/20 18:04	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 18:04	ARC	EPA 300.0	
TDS	648	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	0.200	NTU	0.100	6/2/20 16:44	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0298	mg/L	0.00100	6/19/20 13:47	TRC	EPA 200.8	
Manganese	<0.001	mg/L	0.00100	6/19/20 13:47	TRC	EPA 200.8	
Selenium	<0.001	mg/L	0.00100	6/19/20 13:47	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 13:47	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P13
Lab/Sample Number: WAE0919-02 Collect Date: 05/28/20 08:50
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	39.9	mg/L	0.600	6/12/20 11:30	TLM	SM 4500-NH3 H	
Chloride	1200	mg/L	5.00	6/16/20 0:21	ARC	EPA 300.0	
Nitrate-N	0.155	mg/L	0.100	5/29/20 18:20	ARC	EPA 300.0	
Nitrite-N	0.310	mg/L	0.100	5/29/20 18:20	ARC	EPA 300.0	
TDS	4470	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	0.393	NTU	0.100	6/2/20 16:47	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0437	mg/L	0.00100	6/19/20 13:50	TRC	EPA 200.8	
Manganese	4.62	mg/L	0.100	6/19/20 15:14	TRC	EPA 200.8	
Selenium	0.00299	mg/L	0.00100	6/19/20 13:50	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 13:50	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005SA10
Lab/Sample Number: WAE0919-03 Collect Date: 05/28/20 14:05
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	662	mg/L	10.0	6/12/20 12:21	TLM	SM 4500-NH3 H	
Chloride	8240	mg/L	50.0	6/17/20 2:23	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 18:37	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 18:37	ARC	EPA 300.0	
TDS	20700	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	12.5	NTU	0.100	6/2/20 16:49	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0550	mg/L	0.00100	6/19/20 13:52	TRC	EPA 200.8	
Manganese	4.95	mg/L	0.100	6/19/20 15:17	TRC	EPA 200.8	M2
Selenium	0.0100	mg/L	0.00100	6/19/20 13:52	TRC	EPA 200.8	M1
Thallium	<0.001	mg/L	0.00100	6/19/20 13:52	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005SA11
Lab/Sample Number: WAE0919-04 Collect Date: 05/28/20 13:30
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	77.0	mg/L	3.00	6/12/20 12:02	TLM	SM 4500-NH3 H	
Chloride	6220	mg/L	50.0	6/17/20 2:40	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 18:53	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 18:53	ARC	EPA 300.0	
TDS	14100	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	1.60	NTU	0.100	6/2/20 16:52	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0363	mg/L	0.00100	6/19/20 13:59	TRC	EPA 200.8	
Manganese	0.312	mg/L	0.00100	6/19/20 13:59	TRC	EPA 200.8	
Selenium	0.0157	mg/L	0.00100	6/19/20 13:59	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 13:59	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005SA14
Lab/Sample Number: WAE0919-05 Collect Date: 05/28/20 14:35
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	9.90	mg/L	0.0200	6/12/20 11:07	TLM	SM 4500-NH3 H	
Chloride	1070	mg/L	5.00	6/16/20 1:10	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 19:10	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 19:10	ARC	EPA 300.0	
TDS	3760	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	0.263	NTU	0.100	6/2/20 16:55	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0157	mg/L	0.00100	6/19/20 14:07	TRC	EPA 200.8	
Manganese	0.00460	mg/L	0.00100	6/19/20 14:07	TRC	EPA 200.8	
Selenium	0.0188	mg/L	0.00100	6/19/20 14:07	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:07	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P09
Lab/Sample Number: WAE0919-06 Collect Date: 05/28/20 12:55
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	2.68	mg/L	0.600	6/12/20 11:41	TLM	SM 4500-NH3 H	
Chloride	850	mg/L	5.00	6/16/20 1:27	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 19:26	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 19:26	ARC	EPA 300.0	
TDS	1800	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	9.22	NTU	0.100	6/2/20 17:36	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.293	mg/L	0.00100	6/19/20 14:09	TRC	EPA 200.8	
Manganese	1.51	mg/L	0.100	6/19/20 15:19	TRC	EPA 200.8	
Selenium	<0.001	mg/L	0.00100	6/19/20 14:09	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:09	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005PW
Lab/Sample Number: WAE0919-07 Collect Date: 05/28/20 12:30
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.287	mg/L	0.0200	6/12/20 11:09	TLM	SM 4500-NH3 H	
Chloride	1.15	mg/L	0.100	6/15/20 21:51	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 19:43	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 19:43	ARC	EPA 300.0	
TDS	236	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	0.445	NTU	0.100	6/2/20 17:38	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0746	mg/L	0.00100	6/19/20 14:12	TRC	EPA 200.8	
Manganese	0.00113	mg/L	0.00100	6/19/20 14:12	TRC	EPA 200.8	
Selenium	<0.001	mg/L	0.00100	6/19/20 14:12	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:12	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P05
Lab/Sample Number: WAE0919-08 Collect Date: 05/28/20 10:45
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.02	mg/L	0.0200	6/12/20 11:10	TLM	SM 4500-NH3 H	
Chloride	2080	mg/L	20.0	6/17/20 2:57	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 19:59	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 19:59	ARC	EPA 300.0	
TDS	3260	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	0.375	NTU	0.100	6/2/20 17:42	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.401	mg/L	0.00100	6/19/20 14:14	TRC	EPA 200.8	
Manganese	0.0862	mg/L	0.00100	6/19/20 14:14	TRC	EPA 200.8	
Selenium	0.00223	mg/L	0.00100	6/19/20 14:14	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:14	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P06
Lab/Sample Number: WAE0919-09 Collect Date: 05/28/20 11:15
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.654	mg/L	0.0200	6/12/20 11:12	TLM	SM 4500-NH3 H	
Chloride	136	mg/L	1.00	6/16/20 2:00	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 20:16	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 20:16	ARC	EPA 300.0	
TDS	636	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	112	NTU	0.300	6/2/20 17:49	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.229	mg/L	0.00100	6/19/20 14:16	TRC	EPA 200.8	
Manganese	1.91	mg/L	0.100	6/19/20 15:21	TRC	EPA 200.8	
Selenium	<0.001	mg/L	0.00100	6/19/20 14:16	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:16	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P19
Lab/Sample Number: WAE0919-10 Collect Date: 05/28/20 10:05
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.870	mg/L	0.400	6/12/20 11:14	TLM	SM 4500-NH3 H	
Chloride	6210	mg/L	50.0	6/17/20 3:13	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 23:02	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 23:02	ARC	EPA 300.0	
TDS	9040	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	25.5	NTU	0.300	6/2/20 17:51	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.165	mg/L	0.00100	6/19/20 14:19	TRC	EPA 200.8	
Manganese	2.18	mg/L	0.100	6/19/20 15:24	TRC	EPA 200.8	
Selenium	0.00598	mg/L	0.00100	6/19/20 14:19	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:19	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P20B
Lab/Sample Number: WAE0919-11 Collect Date: 05/28/20 12:05
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	17.0	mg/L	0.600	6/12/20 11:48	TLM	SM 4500-NH3 H	
Chloride	1590	mg/L	5.00	6/16/20 2:33	ARC	EPA 300.0	
Nitrate-N	12.0	mg/L	0.100	5/29/20 23:19	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 23:19	ARC	EPA 300.0	
TDS	3550	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	11.2	NTU	0.100	6/2/20 17:53	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0482	mg/L	0.00100	6/19/20 14:29	TRC	EPA 200.8	
Manganese	0.366	mg/L	0.00100	6/19/20 14:29	TRC	EPA 200.8	
Selenium	0.00398	mg/L	0.00100	6/19/20 14:29	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:29	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P25
Lab/Sample Number: WAE0919-12 Collect Date: 05/28/20 09:30
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.559	mg/L	0.0200	6/12/20 11:17	TLM	SM 4500-NH3 H	
Chloride	720	mg/L	5.00	6/16/20 4:14	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 23:35	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 23:35	ARC	EPA 300.0	
TDS	2110	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	217	NTU	0.600	6/2/20 17:58	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0449	mg/L	0.00100	6/19/20 14:34	TRC	EPA 200.8	
Manganese	11.5	mg/L	0.100	6/19/20 15:26	TRC	EPA 200.8	
Selenium	<0.001	mg/L	0.00100	6/19/20 14:34	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:34	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 2005P27
Lab/Sample Number: WAE0919-13 Collect Date: 05/28/20 11:40
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.02	mg/L	0.0200	6/12/20 11:18	TLM	SM 4500-NH3 H	
Chloride	7600	mg/L	50.0	6/17/20 3:30	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/29/20 23:52	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/29/20 23:52	ARC	EPA 300.0	
TDS	10900	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	1.39	NTU	0.100	6/2/20 18:01	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	2.14	mg/L	0.100	6/19/20 15:28	TRC	EPA 200.8	
Manganese	0.00451	mg/L	0.00100	6/19/20 14:37	TRC	EPA 200.8	
Selenium	0.0103	mg/L	0.00100	6/19/20 14:37	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:37	TRC	EPA 200.8	

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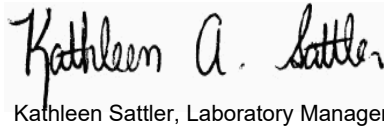
Analytical Results Report

(Continued)

Sample Location: 2005FD
Lab/Sample Number: WAE0919-14 Collect Date: 05/28/20 16:30
Date Received: 05/28/20 16:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	669	mg/L	10.0	6/12/20 12:17	TLM	SM 4500-NH3 H	
Chloride	6990	mg/L	50.0	6/17/20 3:46	ARC	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	5/30/20 0:08	ARC	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	5/30/20 0:08	ARC	EPA 300.0	
TDS	19600	mg/L	5.00	6/3/20 8:40	BAS	SM 2540 C	M3
Turbidity	4.20	NTU	0.100	6/2/20 18:03	MMS	EPA 180.1	H3
Metals by ICP-MS							
Barium	0.0578	mg/L	0.00100	6/19/20 14:39	TRC	EPA 200.8	M2
Manganese	4.89	mg/L	0.100	6/19/20 15:31	TRC	EPA 200.8	M2
Selenium	0.0139	mg/L	0.00100	6/19/20 14:39	TRC	EPA 200.8	
Thallium	<0.001	mg/L	0.00100	6/19/20 14:39	TRC	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

H3 Sample was received past holding time.
M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
M3 Spike recovery value is unusable. Analyte concentration disproportionate to the spike level. Blank spike recovery acceptable.
PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

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The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAF0028 - W Ions										
Blank (BAF0028-BLK1)					Prepared & Analyzed: 5/29/2020					
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
Blank (BAF0028-BLK2)										
					Prepared & Analyzed: 5/29/2020					
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
LCS (BAF0028-BS1)										
					Prepared & Analyzed: 5/29/2020					
Nitrite-N	4.12			mg/L	4.00		103	90-110		
Nitrate-N	4.01			mg/L	4.00		100	90-110		
LCS (BAF0028-BS2)										
					Prepared & Analyzed: 5/29/2020					
Nitrite-N	4.00			mg/L	4.00		100	90-110		
Nitrate-N	3.92			mg/L	4.00		98.0	90-110		
Matrix Spike (BAF0028-MS1)										
					Source: WAE0894-01		Prepared & Analyzed: 5/29/2020			
Nitrite-N	3.95		0.100	mg/L	4.02	ND	98.3	80-120		
Nitrate-N	4.24		0.100	mg/L	4.02	0.329	97.5	80-120		
Matrix Spike Dup (BAF0028-MSD1)										
					Source: WAE0894-01		Prepared & Analyzed: 5/29/2020			
Nitrite-N	4.17		0.100	mg/L	4.02	ND	104	80-120	5.64	20
Nitrate-N	4.45		0.100	mg/L	4.02	0.329	103	80-120	4.83	20
Batch: BAF0100 - W Wet Chem										
Blank (BAF0100-BLK1)					Prepared & Analyzed: 6/2/2020					
Turbidity	ND		0.100	NTU						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAF0227 - W Wet Chem										
Blank (BAF0227-BLK1)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 6/3/2020					
Blank (BAF0227-BLK2)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 6/3/2020					
LCS (BAF0227-BS1)										
TDS	484			mg/L	500		96.8	80-120		
LCS Dup (BAF0227-BSD1)										
TDS	522			mg/L	500		104	80-120	7.55	20
Duplicate (BAF0227-DUP1)										
TDS	946		5.00	mg/L		926			2.14	20
Matrix Spike (BAF0227-MS1)										
TDS	21400	M3	5.00	mg/L	500	20700	140	80-120		
Matrix Spike Dup (BAF0227-MSD1)										
TDS	21200	M3	5.00	mg/L	500	20700	100	80-120	0.939	20
Batch: BAF0435 - W FIA										
Blank (BAF0435-BLK1)										
Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 6/12/2020					
Blank (BAF0435-BLK2)										
Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 6/12/2020					

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAF0435 - W FIA (Continued)										
Blank (BAF0435-BLK3)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	ND		0.0200	mg/L						
Blank (BAF0435-BLK4)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	ND		0.0200	mg/L						
LCS (BAF0435-BS1)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.203		0.0200	mg/L	0.200		101	90-110		
LCS (BAF0435-BS2)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.206		0.0200	mg/L	0.200		103	90-110		
Matrix Spike (BAF0435-MS1)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.516		0.0200	mg/L	0.200	0.315	100	80-120		
Matrix Spike (BAF0435-MS2)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.784		0.0200	mg/L	0.200	0.582	101	80-120		
Matrix Spike Dup (BAF0435-MSD1)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.513		0.0200	mg/L	0.200	0.315	98.7	80-120	0.564	20
Matrix Spike Dup (BAF0435-MSD2)					Prepared & Analyzed: 6/12/2020					
Ammonia/N	0.782		0.0200	mg/L	0.200	0.582	100	80-120	0.294	20
Batch: BAF0522 - W Ions										
Blank (BAF0522-BLK1)					Prepared & Analyzed: 6/15/2020					
Chloride	ND		0.100	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAF0522 - W Ions (Continued)										
LCS (BAF0522-BS1)										
Chloride	3.91			mg/L	4.00		97.8	90-110		
Matrix Spike (BAF0522-MS1)										
Chloride	4.26		0.100	mg/L	4.02	0.0664	104	80-120		
Matrix Spike Dup (BAF0522-MSD1)										
Chloride	4.18		0.100	mg/L	4.02	0.0664	102	80-120	1.76	20

Batch: BAF0580 - W Ions

Blank (BAF0580-BLK1)										
Chloride	ND		0.100	mg/L						
LCS (BAF0580-BS1)										
Chloride	3.92			mg/L	4.00		98.1	90-110		
Matrix Spike (BAF0580-MS1)										
Chloride	6.64		0.100	mg/L	4.02	3.33	82.6	80-120		
Matrix Spike Dup (BAF0580-MSD1)										
Chloride	6.85		0.100	mg/L	4.02	3.33	87.8	80-120	3.10	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAF0120 - W 3010 Digest										
Blank (BAF0120-BLK1)										
Manganese	ND		0.00100	mg/L						
Selenium	ND		0.00100	mg/L						
Barium	ND		0.00100	mg/L						
Thallium	ND		0.00100	mg/L						
LCS (BAF0120-BS1)										
Thallium	0.0525		0.00100	mg/L	0.0500		105	85-115		
Manganese	0.0519		0.00100	mg/L	0.0500		104	85-115		
Selenium	0.0477		0.00100	mg/L	0.0500		95.4	85-115		
Barium	0.0509		0.00100	mg/L	0.0500		102	85-115		
Matrix Spike (BAF0120-MS1)										
Manganese	4.77	M2	0.00100	mg/L	0.0500	4.95	NR	70-130		
Selenium	0.0728		0.00100	mg/L	0.0500	0.0100	126	70-130		
Thallium	0.0416		0.00100	mg/L	0.0500	<0.001	83.1	70-130		
Barium	0.106		0.00100	mg/L	0.0500	0.0550	101	70-130		
Matrix Spike (BAF0120-MS2)										
Barium	0.0616	M2	0.00100	mg/L	0.0500	0.0578	7.43	70-130		
Manganese	0.995	M2	0.00100	mg/L	0.0500	4.89	NR	70-130		
Selenium	0.0537		0.00100	mg/L	0.0500	0.0139	79.6	70-130		
Thallium	0.0452		0.00100	mg/L	0.0500	<0.001	90.3	70-130		

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BAF0120 - W 3010 Digest (Continued)

Matrix Spike Dup (BAF0120-MSD1)

Source: WAE0919-03

Prepared: 6/3/2020 Analyzed: 6/19/2020

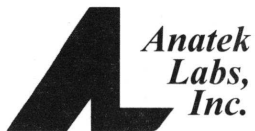
Selenium	0.0781	M1	0.00100	mg/L	0.0500	0.0100	136	70-130	6.97	20
Thallium	0.0435		0.00100	mg/L	0.0500	<0.001	87.0	70-130	4.63	20
Manganese	5.08	M2	0.00100	mg/L	0.0500	4.95	271	70-130	6.46	20
Barium	0.116		0.00100	mg/L	0.0500	0.0550	123	70-130	9.67	20

Matrix Spike Dup (BAF0120-MSD2)

Source: WAE0919-14

Prepared: 6/3/2020 Analyzed: 6/19/2020

Selenium	0.0543		0.00100	mg/L	0.0500	0.0139	80.8	70-130	1.12	20
Manganese	1.02	M2	0.00100	mg/L	0.0500	4.89	NR	70-130	2.88	20
Barium	0.0635	M2	0.00100	mg/L	0.0500	0.0578	11.4	70-130	3.16	20
Thallium	0.0452		0.00100	mg/L	0.0500	<0.001	90.4	70-130	0.0952	20



L-Bar Q2

Chain of Custody Record

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Anatek
Log-In #

WAE0919



Due: 06/12/20

Company Name: <u>GreatWest</u>	Project Manager: <u>Craig Sauer</u>
Address: <u>9221 N. Division St.</u>	Project Name & #: <u>Alcoa L-Bar</u>
City: <u>Spokane</u> State: <u>WA</u> Zip: <u>99021</u>	Email Address: <u>csauer@greatwesteng.com</u>
Phone: <u>509-994-9938</u>	Purchase Order #: <u>Alcoa</u>
Fax:	Sampler Name & phone: <u>Craig Sauer 509-994-9938</u>

Turn Around

Please refer to

<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other*

*All rush order requests must be prior approved.

Phone
 Mail
 Fax
 Email

Provide Sample Description					List Analyses Requested										Note Special Instructions/Comments		
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	NH3, C, TDS	Nitrate, Nitrite	Total Metals (Pb, Mn, Se, Th)	Turbidity							
1	2005 P12	5/28 0815	W		3		X	X	X	X							SWBS #14 DB Field duplicate taken (2005FD) 2005FD (sample date 5/28, sample time 1630). Same matrix and analytes. MS/MSD @ 2005 SA10 (1405)
2	2005 P13	5/28 0850	W		3		X	X	X	X							
3	2005 SA10	5/28 1405	W		3		X	X	X	X							
4	2005 SA11	5/28 1330	W		3		X	X	X	X							
5	2005 SA14	5/28 1435	W		3		X	X	X	X							
6	2005 P09	5/28 1255	W		3		X	X	X	X							
7	2005 PW	5/28 1230	W		3		X	X	X	X							
8	2005 P05	5/28 1045	W		3		X	X	X	X							
9	2005 P06	5/28 1115	W		3		X	X	X	X							
10	2005 P19	5/28 1005	W		3		X	X	X	X							
11	2005 P20B	5/28 1205	W		3		X	X	X	X							
12	2005 P25	5/28 0930	W		3		X	X	X	X							
13	2005 P27	5/28 1140	W		3		X	X	X	X							

Inspection Checklist			
Received Intact?	☒	N	
Labels & Chains Agree?	☒	N	
Containers Sealed?	☒	N	
VOC Head Space?	☒	N	
Cooler?	☒	N	
Ice/Ice Packs Present?	☒	N	
Temperature (°C):	9.8° Dig-7		
Preservative:	H2SO4 2001181 <2		
	HNO3 2000994 <2 pH 2001015		
Date & Time:	5-28-20 1715		
Inspected By:	W/g		

	Printed Name	Signature	Company	Date	Time
Relinquished by	Craig Sauer		GWE	5/28/20	16:18
Received by	Brook Berger		Anatek	5-28-20	1620
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WAK0214
Project: Alcoa Q4 L-Bar
Reported: 4/26/2021 15:44

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WAK0214-01	110520P12
WAK0214-02	110520P13
WAK0214-03	110520SA10
WAK0214-04	110520SA11
WAK0214-05	110520SA14
WAK0214-06	110520P09
WAK0214-07	110520PW
WAK0214-08	110520P05
WAK0214-09	110520P06
WAK0214-10	110520P19
WAK0214-11	110520P20B
WAK0214-12	110520P25
WAK0214-13	110520P27
WAK0214-14	110520FD3

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	N	See Comment Section
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	N	See Comment Section
Comments	N	See Comment Section

1. Holding Time Requirements

110520P12, 110520P13, 110520SA10, 110520SA11, 110520SA14, 110520P09, 110520PW, 110520P05, 110520P06, 110520P19, 110520P20B, 110520P25, and 110520P27 pH's were all analyzed out of holding time. 110520SA11, 110520SA14, 110520P27 and 110520FD3 chlorides were initially analyzed within holding time and were then re-analyzed outside of holding time to achieve more accurate results with better dilutions.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

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No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. The thallium, selenium and bariums were analyzed at a dilution of 1:10 to get the maganese within calibration. The samples are normally analyzed without a dilution after a 1:10 dilution. The analyst did not analyze them without a dilution. The samples in the future will be analyzed without a dilution and with an appropriate dilution to get all analytes within the calibration range.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

I certify that this data package is in compliance with the terms and conditions of the contract.

Release of the data contained in this data package has been authorized by the Laboratory Manager or his or her designee.

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: 110520P12
Lab/Sample Number: WAK0214-01 Collect Date: 11/05/20 07:45
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.02	mg/L	0.0200	11/24/20 10:46	SAG	SM 4500-NH3 H	
Chloride	7.11	mg/L	0.100	12/1/20 18:08	BAS	EPA 300.0	
Nitrate-N	1.24	mg/L	0.100	11/6/20 13:53	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 13:53	BAS	EPA 300.0	
pH	7.77	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	562	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	0.256	NTU	0.100	11/6/20 18:03	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0336	mg/L	0.0100	11/20/20 15:07	TRC	EPA 200.8	
Manganese	<0.01	mg/L	0.0100	11/20/20 15:07	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:07	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:07	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P13
Lab/Sample Number: WAK0214-02 Collect Date: 11/05/20 08:20
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	38.4	mg/L	0.400	11/20/20 15:00	SAG	SM 4500-NH3 H	
Chloride	1190	mg/L	5.00	12/1/20 18:57	BAS	EPA 300.0	
Nitrate-N	3.67	mg/L	0.100	11/6/20 14:09	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 14:09	BAS	EPA 300.0	
pH	7.13	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	4110	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	0.447	NTU	0.100	11/6/20 18:05	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0521	mg/L	0.0100	11/20/20 15:09	TRC	EPA 200.8	
Manganese	4.55	mg/L	0.0100	11/20/20 15:09	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:09	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:09	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520SA10
Lab/Sample Number: WAK0214-03 Collect Date: 11/05/20 09:25
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	676	mg/L	10.0	11/20/20 15:47	SAG	SM 4500-NH3 H	
Chloride	7590	mg/L	50.0	12/4/20 11:32	BAS	EPA 300.0	H2
Nitrate-N	0.401	mg/L	0.100	11/6/20 14:26	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 14:26	BAS	EPA 300.0	
pH	7.53	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	16400	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	12.3	NTU	0.100	11/6/20 18:06	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0513	mg/L	0.0100	11/20/20 15:11	TRC	EPA 200.8	
Manganese	2.63	mg/L	0.0100	11/20/20 15:11	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:11	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:11	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520SA11
Lab/Sample Number: WAK0214-04 Collect Date: 11/05/20 09:05
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	97.4	mg/L	1.00	11/20/20 15:05	SAG	SM 4500-NH3 H	
Chloride	8340	mg/L	50.0	12/4/20 11:49	BAS	EPA 300.0	H2
Nitrate-N	0.627	mg/L	0.100	11/6/20 14:42	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 14:42	BAS	EPA 300.0	
pH	7.81	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	14300	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	16.5	NTU	0.100	11/6/20 18:07	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0620	mg/L	0.0100	11/20/20 15:18	TRC	EPA 200.8	
Manganese	0.560	mg/L	0.0100	11/20/20 15:18	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:18	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:18	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520SA14
Lab/Sample Number: WAK0214-05 Collect Date: 11/05/20 08:45
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	19.1	mg/L	0.400	11/20/20 15:08	SAG	SM 4500-NH3 H	
Chloride	1000	mg/L	5.00	12/1/20 19:47	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 17:11	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 17:11	BAS	EPA 300.0	
pH	9.76	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	2940	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	0.743	NTU	0.100	11/6/20 18:09	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0168	mg/L	0.0100	11/20/20 15:36	TRC	EPA 200.8	
Manganese	0.0104	mg/L	0.0100	11/20/20 15:36	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:36	TRC	EPA 200.8	
Thallium	ND	mg/L	0.0100	11/20/20 15:36	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P09
Lab/Sample Number: WAK0214-06 Collect Date: 11/05/20 11:55
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.365	mg/L	0.0200	11/20/20 15:09	SAG	SM 4500-NH3 H	
Chloride	514	mg/L	2.50	12/1/20 20:04	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 17:28	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 17:28	BAS	EPA 300.0	
pH	8.47	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	1210	mg/L	5.00	11/10/20 14:15	BAS	SM 2540 C	
Turbidity	0.472	NTU	0.100	11/6/20 18:11	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0831	mg/L	0.0100	11/20/20 15:39	TRC	EPA 200.8	
Manganese	0.0934	mg/L	0.0100	11/20/20 15:39	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:39	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:39	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520PW
Lab/Sample Number: WAK0214-07 Collect Date: 11/05/20 11:35
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	11/20/20 15:10	SAG	SM 4500-NH3 H	
Chloride	1.02	mg/L	0.100	12/1/20 20:20	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 17:44	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 17:44	BAS	EPA 300.0	
pH	7.84	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	286	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	0.768	NTU	0.100	11/6/20 18:12	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0775	mg/L	0.0100	11/20/20 15:41	TRC	EPA 200.8	
Manganese	<0.01	mg/L	0.0100	11/20/20 15:41	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:41	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:41	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P05
Lab/Sample Number: WAK0214-08 Collect Date: 11/05/20 13:05
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	11/20/20 15:19	SAG	SM 4500-NH3 H	
Chloride	2460	mg/L	10.0	12/1/20 20:37	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 18:01	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 18:01	BAS	EPA 300.0	
pH	7.25	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	2860	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	1.46	NTU	0.100	11/6/20 18:14	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.742	mg/L	0.0100	11/20/20 15:43	TRC	EPA 200.8	
Manganese	0.511	mg/L	0.0100	11/20/20 15:43	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:43	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:43	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P06
Lab/Sample Number: WAK0214-09 Collect Date: 11/05/20 13:25
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.484	mg/L	0.400	11/20/20 15:21	SAG	SM 4500-NH3 H	
Chloride	73.8	mg/L	0.400	12/1/20 20:53	BAS	EPA 300.0	
Nitrate-N	0.149	mg/L	0.100	11/6/20 18:17	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 18:17	BAS	EPA 300.0	
pH	7.31	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	840	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	151	NTU	1.00	11/6/20 18:16	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.361	mg/L	0.0100	11/20/20 15:46	TRC	EPA 200.8	
Manganese	1.74	mg/L	0.0100	11/20/20 15:46	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:46	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:46	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P19
Lab/Sample Number: WAK0214-10 Collect Date: 11/05/20 11:10
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.722	mg/L	0.400	11/20/20 15:24	SAG	SM 4500-NH3 H	
Chloride	4810	mg/L	20.0	12/1/20 21:10	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 18:34	BAS	EPA 300.0	
Nitrite-N	ND	mg/L	0.100	11/6/20 18:34	BAS	EPA 300.0	
pH	6.84	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	7320	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	1.70	NTU	0.100	11/6/20 18:18	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0935	mg/L	0.0100	11/20/20 15:48	TRC	EPA 200.8	
Manganese	2.38	mg/L	0.0100	11/20/20 15:48	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:48	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:48	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P20B
Lab/Sample Number: WAK0214-11 Collect Date: 11/05/20 10:40
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	21.2	mg/L	0.400	11/20/20 15:26	SAG	SM 4500-NH3 H	
Chloride	1610	mg/L	10.0	12/1/20 21:26	BAS	EPA 300.0	
Nitrate-N	18.1	mg/L	0.100	11/6/20 18:50	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 18:50	BAS	EPA 300.0	
pH	7.13	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	3160	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	1.32	NTU	0.100	11/6/20 18:20	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0828	mg/L	0.0100	11/20/20 15:50	TRC	EPA 200.8	
Manganese	0.635	mg/L	0.0100	11/20/20 15:50	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:50	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:50	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P25
Lab/Sample Number: WAK0214-12 Collect Date: 11/05/20 10:10
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.924	mg/L	0.400	11/20/20 15:29	SAG	SM 4500-NH3 H	
Chloride	340	mg/L	2.50	12/1/20 21:43	BAS	EPA 300.0	
Nitrate-N	<0.1	mg/L	0.100	11/6/20 19:07	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 19:07	BAS	EPA 300.0	
pH	7.03	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	1890	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	107	NTU	1.00	11/6/20 18:23	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0651	mg/L	0.0100	11/20/20 15:53	TRC	EPA 200.8	
Manganese	10.7	mg/L	0.0100	11/20/20 15:53	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:53	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:53	TRC	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 110520P27
Lab/Sample Number: WAK0214-13 Collect Date: 11/05/20 11:00
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0281	mg/L	0.0200	11/20/20 15:35	SAG	SM 4500-NH3 H	
Chloride	7200	mg/L	50.0	12/4/20 12:05	BAS	EPA 300.0	H2
Nitrate-N	<0.1	mg/L	0.100	11/6/20 19:23	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 19:23	BAS	EPA 300.0	
pH	7.11	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	8650	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	2.00	NTU	0.100	11/6/20 18:25	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	1.87	mg/L	0.0100	11/20/20 15:55	TRC	EPA 200.8	
Manganese	<0.01	mg/L	0.0100	11/20/20 15:55	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:55	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:55	TRC	EPA 200.8	

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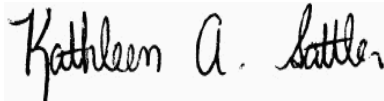
Analytical Results Report

(Continued)

Sample Location: 110520FD3
Lab/Sample Number: WAK0214-14 Collect Date: 11/05/20 17:00
Date Received: 11/05/20 15:48 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	797	mg/L	10.0	11/23/20 11:17	SAG	SM 4500-NH3 H	
Chloride	9520	mg/L	50.0	12/4/20 12:22	BAS	EPA 300.0	H2
Nitrate-N	<0.1	mg/L	0.100	11/6/20 19:40	BAS	EPA 300.0	
Nitrite-N	<0.1	mg/L	0.100	11/6/20 19:40	BAS	EPA 300.0	
pH	7.54	pH Units	1.00	11/12/20 15:45	GES	SM 4500-H-B	H8
TDS	16800	mg/L	5.00	11/10/20 10:05	BAS	SM 2540 C	
Turbidity	10.3	NTU	0.100	11/6/20 18:26	MMS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0552	mg/L	0.0100	11/20/20 15:57	TRC	EPA 200.8	
Manganese	3.16	mg/L	0.0100	11/20/20 15:57	TRC	EPA 200.8	M2
Selenium	<0.01	mg/L	0.0100	11/20/20 15:57	TRC	EPA 200.8	
Thallium	<0.01	mg/L	0.0100	11/20/20 15:57	TRC	EPA 200.8	

Authorized Signature,


Kathleen Sattler, Laboratory Manager

H2 Initial analysis within holding time, Reanalysis for the required dilution was past holding time.
H8 Analysis performed past the recommended method holding time as per client instructions
M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

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The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAK0224 - W Ions										
Blank (BAK0224-BLK1)										
					Prepared & Analyzed: 11/6/2020					
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
LCS (BAK0224-BS1)										
					Prepared & Analyzed: 11/6/2020					
Nitrite-N	4.21			mg/L	4.00		105	90-110		
Nitrate-N	4.27			mg/L	4.00		107	90-110		
Matrix Spike (BAK0224-MS1)										
			Source: WAK0152-05		Prepared & Analyzed: 11/7/2020					
Nitrite-N	17.0		0.400	mg/L	16.0		106	80-120		
Nitrate-N	92.8		0.400	mg/L	16.0	72.1	130	80-120		
Matrix Spike Dup (BAK0224-MSD1)										
			Source: WAK0152-05		Prepared & Analyzed: 11/7/2020					
Nitrite-N	16.4		0.400	mg/L	16.0		102	80-120	3.85	20
Nitrate-N	93.1		0.400	mg/L	16.0	72.1	131	80-120	0.327	20
Batch: BAK0323 - W Wet Chem										
Blank (BAK0323-BLK1)										
					Prepared & Analyzed: 11/6/2020					
Turbidity	ND		0.100	NTU						
Batch: BAK0493 - W Wet Chem										
Blank (BAK0493-BLK1)										
					Prepared & Analyzed: 11/10/2020					
TDS	ND		5.00	mg/L						
Blank (BAK0493-BLK2)										
					Prepared & Analyzed: 11/10/2020					
TDS	ND		5.00	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAK0493 - W Wet Chem (Continued)										
LCS (BAK0493-BS1)										
TDS	499			mg/L	500		99.8	80-120		
LCS Dup (BAK0493-BSD1)										
TDS	468			mg/L	500		93.6	80-120	6.41	20
Duplicate (BAK0493-DUP1)										
TDS	329		5.00	mg/L		352			6.75	20
Matrix Spike (BAK0493-MS1)										
TDS	906		5.00	mg/L	500	430	95.2	80-120		
Matrix Spike Dup (BAK0493-MSD1)										
TDS	972		5.00	mg/L	500	430	108	80-120	7.03	20
Batch: BAK0637 - W FIA										
Blank (BAK0637-BLK1)										
Ammonia/N	ND		0.0200	mg/L						
Blank (BAK0637-BLK2)										
Ammonia/N	ND		0.0200	mg/L						
LCS (BAK0637-BS1)										
Ammonia/N	0.183		0.0200	mg/L	0.200		91.4	90-110		
Matrix Spike (BAK0637-MS1)										
Ammonia/N	0.297		0.0200	mg/L	0.200	0.111	93.1	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAK0637 - W FIA (Continued)										
Matrix Spike Dup (BAK0637-MSD1)			Source: WAK0223-02		Prepared & Analyzed: 11/20/2020					
Ammonia/N	0.303		0.0200	mg/L	0.200	0.111	96.0	80-120	1.93	20
Batch: BAK0675 - W Wet Chem										
Blank (BAK0675-BLK1)					Prepared & Analyzed: 11/10/2020					
TDS	ND		5.00	mg/L						
Blank (BAK0675-BLK2)					Prepared & Analyzed: 11/10/2020					
TDS	ND		5.00	mg/L						
LCS (BAK0675-BS1)					Prepared & Analyzed: 11/10/2020					
TDS	482			mg/L	500		96.4	80-120		
LCS Dup (BAK0675-BSD1)					Prepared & Analyzed: 11/10/2020					
TDS	484			mg/L	500		96.8	80-120	0.414	20
Duplicate (BAK0675-DUP1)			Source: WAK0239-04		Prepared & Analyzed: 11/10/2020					
TDS	521		5.00	mg/L	535			2.65		20
Matrix Spike (BAK0675-MS1)			Source: WAK0281-02		Prepared & Analyzed: 11/10/2020					
TDS	644		5.00	mg/L	500	193	90.2	80-120		
Matrix Spike Dup (BAK0675-MSD1)			Source: WAK0281-02		Prepared & Analyzed: 11/10/2020					
TDS	636		5.00	mg/L	500	193	88.6	80-120	1.25	20
Batch: BAK0682 - W FIA										
Blank (BAK0682-BLK1)					Prepared & Analyzed: 11/23/2020					
Ammonia/N	ND		0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAK0682 - W FIA (Continued)										
Blank (BAK0682-BLK2)					Prepared & Analyzed: 11/23/2020					
Ammonia/N	ND		0.0200	mg/L						
LCS (BAK0682-BS1)					Prepared & Analyzed: 11/23/2020					
Ammonia/N	0.206		0.0200	mg/L	0.200		103	90-110		
Matrix Spike (BAK0682-MS1)					Prepared & Analyzed: 11/23/2020					
Ammonia/N	0.308		0.0200	mg/L	0.200	0.0896	109	80-120		
Matrix Spike Dup (BAK0682-MSD1)					Prepared & Analyzed: 11/23/2020					
Ammonia/N	0.314		0.0200	mg/L	0.200	0.0896	112	80-120	2.19	20
Batch: BAL0053 - W Ions										
Blank (BAL0053-BLK1)					Prepared & Analyzed: 12/1/2020					
Chloride	ND		0.100	mg/L						
LCS (BAL0053-BS1)					Prepared & Analyzed: 12/1/2020					
Chloride	3.91			mg/L	4.00		97.7	90-110		
Matrix Spike (BAL0053-MS1)					Prepared & Analyzed: 12/1/2020					
Chloride	11.1		0.100	mg/L	4.02	7.11	100	80-120		
Matrix Spike Dup (BAL0053-MSD1)					Prepared & Analyzed: 12/1/2020					
Chloride	11.1		0.100	mg/L	4.02	7.11	98.3	80-120	0.720	20
Batch: BAL0144 - W Ions										
Blank (BAL0144-BLK1)					Prepared & Analyzed: 12/3/2020					
Chloride	ND		0.100	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAL0144 - W Ions (Continued)										
LCS (BAL0144-BS1)										
Chloride	3.97			mg/L	4.00		99.3	90-110		
Matrix Spike (BAL0144-MS1)										
Chloride	5.08		0.100	mg/L	4.02	0.897	104	80-120		
Matrix Spike Dup (BAL0144-MSD1)										
Chloride	5.02		0.100	mg/L	4.02	0.897	103	80-120	1.08	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BAK0509 - W 3010 Digest										
Blank (BAK0509-BLK1)										
Barium	ND		0.00100	mg/L						
Manganese	ND		0.00100	mg/L						
Selenium	ND		0.00100	mg/L						
Thallium	ND		0.00100	mg/L						
LCS (BAK0509-BS1)										
Thallium	0.0490		0.00100	mg/L	0.0500		98.0	85-115		
Manganese	0.0465		0.00100	mg/L	0.0500		93.0	85-115		
Selenium	0.0489		0.00100	mg/L	0.0500		97.7	85-115		
Barium	0.0485		0.00100	mg/L	0.0500		97.1	85-115		
Matrix Spike (BAK0509-MS1)										
Barium	0.0908		0.00100	mg/L	0.0500	0.0513	79.2	70-130		
Thallium	0.0448		0.00100	mg/L	0.0500	<0.01	89.3	70-130		
Selenium	0.0502		0.00100	mg/L	0.0500	<0.01	94.9	70-130		
Manganese	2.15	M2	0.00100	mg/L	0.0500	2.63	NR	70-130		
Matrix Spike (BAK0509-MS2)										
Thallium	0.0435		0.00100	mg/L	0.0500	<0.01	86.7	70-130		
Barium	0.0969		0.00100	mg/L	0.0500	0.0552	83.5	70-130		
Manganese	2.74	M2	0.00100	mg/L	0.0500	3.16	NR	70-130		
Selenium	0.0554		0.00100	mg/L	0.0500	<0.01	99.8	70-130		
Matrix Spike Dup (BAK0509-MSD1)										
Selenium	0.0482		0.00100	mg/L	0.0500	<0.01	90.9	70-130	4.06	20
Manganese	2.23	M2	0.00100	mg/L	0.0500	2.63	NR	70-130	3.36	20
Barium	0.0940		0.00100	mg/L	0.0500	0.0513	85.4	70-130	3.37	20
Thallium	0.0450		0.00100	mg/L	0.0500	<0.01	89.8	70-130	0.490	20

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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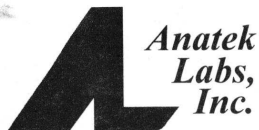
Batch: BAK0509 - W 3010 Digest (Continued)

Matrix Spike Dup (BAK0509-MSD2)

Source: WAK0214-14

Prepared: 11/18/2020 Analyzed: 11/20/2020

Selenium	0.0513		0.00100	mg/L	0.0500	<0.01	91.6	70-130	7.75	20
Thallium	0.0424		0.00100	mg/L	0.0500	<0.01	84.6	70-130	2.47	20
Manganese	2.78	M2	0.00100	mg/L	0.0500	3.16	NR	70-130	1.43	20
Barium	0.0952		0.00100	mg/L	0.0500	0.0552	80.0	70-130	1.85	20



Chain of Custody Record

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Anatek
Log-In #

WAK0214



Due: 11/20/20

Company Name: <u>Great West Engineering</u>	Project Manager: <u>Craig Sauer</u>
Address: <u>9221 N Division St</u>	Project Name & #: <u>Alcoa Q4 L-Bar</u>
City: <u>Spokane</u> State: <u>WA</u> Zip: <u>99021</u>	Email Address: <u>csauer@greatwesteng.com</u>
Phone: <u>509-994-9938</u>	Purchase Order #: <u>Alcoa</u>
Fax:	Sampler Name & phone: <u>C Sauer 509-994-9938</u>

Turn Around

Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal	*All rush order requests must be prior approved.	Phone
☐ Next Day*		Mail
☐ 2nd Day*		Fax
☐ Other*		Email

Provide Sample Description				List Analyses Requested										Note Special Instructions/Comments			
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative: # of Containers	Sample Volume	NH3, Cl, FDS	Nitrate + Nitrite	Total Metals	Ba, Mn, Se, Ti	Turbidity							
2	110520 P12	11/05 745	w	3	-	X	X	X	X								
2	110520 P13	11/05 820	w	3	-	X	X	X	X								
+1	110520 SA10	11/05 925	w	3	-	X	X	X	X								
+1	110520 SA11	11/05 905	w	3	-	X	X	X	X								
2	110520 SA14	11/05 845	w	3	-	X	X	X	X								
2	110520 P09	11/05 1155	w	3	-	X	X	X	X								
+1	110520 PW	11/05 1135	w	3	-	X	X	X	X								
2	110520 P05	11/05 1305	w	3	-	X	X	X	X								
2	110520 P06	11/05 1325	w	3	-	X	X	X	X								
2	110520 P19	11/05 1110	w	3	-	X	X	X	X								
2	110520 P20B	11/05 1040	w	3	-	X	X	X	X								
2	110520 P25	11/05 1010	w	3	-	X	X	X	X								
2	110520 P27	11/05 1400	w	3	-	X	X	X	X								

Relinquished by	<u>Craig Sauer</u>	Signature	<u>[Signature]</u>	Company	<u>GWE</u>	Date	<u>11/5</u>	Time	<u>15:45</u>
Received by	<u>Brock Genger</u>	Signature	<u>[Signature]</u>	Company	<u>Anatek</u>	Date	<u>11-5-20</u>	Time	<u>1548</u>
Relinquished by		Signature		Company		Date		Time	
Received by		Signature		Company		Date		Time	
Relinquished by		Signature		Company		Date		Time	
Received by		Signature		Company		Date		Time	

Inspection Checklist	
Received Intact?	☒ N
Labels & Chains Agree?	☒ N
Containers Sealed?	☒ N
VOC Head Space?	☒ N
Cooler?	☒ N
Ice/Ice Packs Present?	☒ N
Temperature (°C):	<u>See below</u>
Preservative:	<u>#204 2002883-2</u>
	<u>HN03 2002880-2 pH 2001015</u>
Date & Time:	<u>11-5-20 1715</u>
Inspected By:	<u>Weg</u>

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

+ cooler 1: 14.1°/13.9°
* cooler 2: 11.2°/11.0°

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WBE0835
Project: Alcoa Q2 L-Bar
Reported: 7/26/2021 14:36

Analytical Results Report

Sample Location: 052021P12
Lab/Sample Number: WBE0835-01 **Collect Date:** 05/20/21 07:50
Date Received: 05/20/21 16:25 **Collected By:** Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	6/7/21 15:49	TLM	SM 4500-NH3 H	
Chloride	7.05	mg/L	0.100	6/7/21 19:46	BAS	EPA 300.0	
pH	7.33	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	679	mg/L	5.00	5/24/21 15:50	BAS	SM 2540 C	
Turbidity	0.485	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P13
Lab/Sample Number: WBE0835-02 Collect Date: 05/20/21 08:20
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	31.2	mg/L	0.400	6/7/21 18:43	TLM	SM 4500-NH3 H	
Chloride	1050	mg/L	5.00	6/7/21 20:36	BAS	EPA 300.0	
pH	7.98	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	4970	mg/L	5.00	5/24/21 15:50	BAS	SM 2540 C	
Turbidity	0.401	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021SA10
Lab/Sample Number: WBE0835-03 Collect Date: 05/20/21 08:50
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	721	mg/L	20.0	6/15/21 14:50	TLM	SM 4500-NH3 H	
Chloride	12200	mg/L	50.0	6/7/21 20:53	BAS	EPA 300.0	
pH	7.32	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	27500	mg/L	5.00	5/24/21 15:50	BAS	SM 2540 C	
Turbidity	1.38	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021SA11
Lab/Sample Number: WBE0835-04 Collect Date: 05/20/21 09:10
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	71.5	mg/L	2.00	6/15/21 14:25	TLM	SM 4500-NH3 H	
Chloride	7590	mg/L	50.0	6/7/21 21:09	BAS	EPA 300.0	
pH	7.97	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	21100	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	1.41	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021SA14
Lab/Sample Number: WBE0835-05 Collect Date: 05/20/21 09:25
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	16.4	mg/L	0.400	6/7/21 18:51	TLM	SM 4500-NH3 H	
Chloride	921	mg/L	5.00	6/7/21 21:26	BAS	EPA 300.0	
pH	9.93	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	4200	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	0.189	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P09
Lab/Sample Number: WBE0835-06 Collect Date: 05/20/21 12:45
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.153	mg/L	0.0200	6/7/21 15:58	TLM	SM 4500-NH3 H	
Chloride	595	mg/L	2.50	6/7/21 21:42	BAS	EPA 300.0	
pH	8.44	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	2260	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	0.316	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021PW
Lab/Sample Number: WBE0835-07 Collect Date: 05/20/21 12:20
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	6/7/21 15:59	TLM	SM 4500-NH3 H	
Chloride	0.942	mg/L	0.100	6/7/21 21:59	BAS	EPA 300.0	
pH	7.49	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	275	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	2.18	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P05
Lab/Sample Number: WBE0835-08 Collect Date: 05/20/21 11:05
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	6/7/21 16:00	TLM	SM 4500-NH3 H	
Chloride	2040	mg/L	10.0	6/7/21 23:38	BAS	EPA 300.0	
pH	7.02	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	5340	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	0.978	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P06
Lab/Sample Number: WBE0835-09 Collect Date: 05/20/21 11:25
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.493	mg/L	0.0200	6/7/21 16:02	TLM	SM 4500-NH3 H	
Chloride	94.9	mg/L	0.400	6/7/21 23:54	BAS	EPA 300.0	
pH	7.05	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	745	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	85.8	NTU	0.250	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P19
Lab/Sample Number: WBE0835-10 Collect Date: 05/20/21 10:50
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0512	mg/L	0.0200	6/7/21 16:03	TLM	SM 4500-NH3 H	
Chloride	5680	mg/L	25.0	6/14/21 16:41	BAS	EPA 300.0	
pH	6.57	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	14000	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	0.665	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P20B
Lab/Sample Number: WBE0835-11 Collect Date: 05/20/21 10:25
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	12.7	mg/L	0.400	6/7/21 18:53	TLM	SM 4500-NH3 H	
Chloride	1400	mg/L	10.0	6/8/21 0:27	BAS	EPA 300.0	
pH	7.32	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	4630	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	13.8	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P25
Lab/Sample Number: WBE0835-12 Collect Date: 05/20/21 10:05
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.566	mg/L	0.0200	6/7/21 16:05	TLM	SM 4500-NH3 H	
Chloride	748	mg/L	2.50	6/8/21 0:44	BAS	EPA 300.0	
pH	6.81	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	3180	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	111	NTU	0.400	5/21/21 9:08	CME	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 052021P27
Lab/Sample Number: WBE0835-13 Collect Date: 05/20/21 11:50
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0397	mg/L	0.0200	6/7/21 16:06	TLM	SM 4500-NH3 H	
Chloride	5390	mg/L	50.0	6/8/21 1:00	BAS	EPA 300.0	
pH	7.12	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	11400	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	0.674	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

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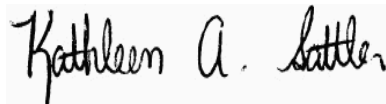
Analytical Results Report

(Continued)

Sample Location: 052021FD3
Lab/Sample Number: WBE0835-14 Collect Date: 05/20/21 14:30
Date Received: 05/20/21 16:25 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	6/7/21 16:14	TLM	SM 4500-NH3 H	
Chloride	1.07	mg/L	0.100	6/14/21 16:57	BAS	EPA 300.0	
pH	7.82	pH Units	1.00	5/21/21 6:30	KAS	SM 4500-H-B	
TDS	452	mg/L	5.00	5/26/21 8:55	BAS	SM 2540 C	
Turbidity	1.80	NTU	0.100	5/21/21 9:08	CME	EPA 180.1	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBE0704 - W Wet Chem										
Blank (BBE0704-BLK1)										
Turbidity	ND		0.100	NTU	Prepared & Analyzed: 5/21/2021					
Batch: BBE0771 - W Wet Chem										
Blank (BBE0771-BLK1)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 5/24/2021					
LCS (BBE0771-BS1)										
TDS	479			mg/L	500		95.8	80-120		
LCS Dup (BBE0771-BSD1)										
TDS	488			mg/L	500		97.6	80-120	1.86	20
Duplicate (BBE0771-DUP1)										
TDS	704		5.00	mg/L	Source: WBE0835-01		Prepared & Analyzed: 5/24/2021			
					679				3.62	20
Matrix Spike (BBE0771-MS1)										
TDS	1060		5.00	mg/L	500	549	102	80-120		
Matrix Spike Dup (BBE0771-MSD1)										
TDS	1050		5.00	mg/L	500	549	101	80-120	0.568	20
Batch: BBE0866 - W Wet Chem										
Blank (BBE0866-BLK1)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 5/26/2021					

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBE0866 - W Wet Chem (Continued)										
Blank (BBE0866-BLK2)					Prepared & Analyzed: 5/26/2021					
TDS	ND		5.00	mg/L						
LCS (BBE0866-BS1)					Prepared & Analyzed: 5/26/2021					
TDS	472			mg/L	500		94.4	80-120		
LCS Dup (BBE0866-BSD1)					Prepared & Analyzed: 5/26/2021					
TDS	486			mg/L	500		97.2	80-120	2.92	20
Duplicate (BBE0866-DUP1)					Prepared & Analyzed: 5/26/2021					
TDS	789		5.00	mg/L		805			2.01	20
Matrix Spike (BBE0866-MS1)					Prepared & Analyzed: 5/26/2021					
TDS	716		5.00	mg/L	500	275	88.2	80-120		
Matrix Spike Dup (BBE0866-MSD1)					Prepared & Analyzed: 5/26/2021					
TDS	774		5.00	mg/L	500	275	99.8	80-120	7.79	20
Batch: BBF0265 - W Ions										
Blank (BBF0265-BLK1)					Prepared & Analyzed: 6/7/2021					
Chloride	ND		0.100	mg/L						
LCS (BBF0265-BS1)					Prepared & Analyzed: 6/7/2021					
Chloride	4.06			mg/L	4.00		102	90-110		
Matrix Spike (BBF0265-MS1)					Prepared & Analyzed: 6/7/2021					
Chloride	5.24			mg/L	4.00	0.942	108	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0265 - W Ions (Continued)										
Matrix Spike Dup (BBF0265-MSD1)										
				Source: WBE0835-07		Prepared & Analyzed: 6/7/2021				
Chloride	4.80			mg/L	4.00	0.942	96.5	80-120	8.77	20

Batch: BBF0279 - W FIA

Blank (BBF0279-BLK1)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK2)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK3)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK4)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK5)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK6)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK7)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	
Blank (BBF0279-BLK8)				Prepared & Analyzed: 6/7/2021
Ammonia/N	ND	0.0200	mg/L	

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0279 - W FIA (Continued)										
Blank (BBF0279-BLK9)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	ND		0.0200	mg/L						
LCS (BBF0279-BS1)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.198		0.0200	mg/L	0.200		99.0	90-110		
LCS (BBF0279-BS2)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.204		0.0200	mg/L	0.200		102	90-110		
LCS (BBF0279-BS3)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.201		0.0200	mg/L	0.200		101	90-110		
LCS (BBF0279-BS4)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.205		0.0200	mg/L	0.200		103	90-110		
LCS (BBF0279-BS5)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.210		0.0200	mg/L	0.200		105	90-110		
Matrix Spike (BBF0279-MS1)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.333	Source: WBE0799-02	0.0200	mg/L	0.200	0.141	95.8	80-120		
Matrix Spike (BBF0279-MS2)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.457	Source: WBE0850-02	0.0200	mg/L	0.200	0.269	94.1	80-120		
Matrix Spike (BBF0279-MS3)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.247	Source: WBE0904-02	0.0200	mg/L	0.200	0.0608	93.3	80-120		
Matrix Spike (BBF0279-MS4)					Prepared & Analyzed: 6/7/2021					
Ammonia/N	0.226	Source: WBE1136-02	0.0200	mg/L	0.200	0.0372	94.6	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0279 - W FIA (Continued)										
Matrix Spike Dup (BBF0279-MSD1)					Source: WBE0799-02					
Ammonia/N	0.323		0.0200	mg/L	0.200	0.141	91.1	80-120	2.83	20
Matrix Spike Dup (BBF0279-MSD2)					Source: WBE0850-02					
Ammonia/N	0.465		0.0200	mg/L	0.200	0.269	97.8	80-120	1.61	20
Matrix Spike Dup (BBF0279-MSD3)					Source: WBE0904-02					
Ammonia/N	0.248		0.0200	mg/L	0.200	0.0608	93.6	80-120	0.242	20
Matrix Spike Dup (BBF0279-MSD4)					Source: WBE1136-02					
Ammonia/N	0.225		0.0200	mg/L	0.200	0.0372	93.8	80-120	0.665	20
Batch: BBF0527 - W Ions										
Blank (BBF0527-BLK1)					Prepared & Analyzed: 6/14/2021					
Chloride	ND		0.100	mg/L						
LCS (BBF0527-BS1)					Prepared & Analyzed: 6/14/2021					
Chloride	3.99			mg/L	4.00		99.8	90-110		
Matrix Spike (BBF0527-MS1)					Source: WBF0459-07RE1					
Chloride	28.1			mg/L	4.00	24.1	101	80-120		
Matrix Spike Dup (BBF0527-MSD1)					Source: WBF0459-07RE1					
Chloride	28.1			mg/L	4.00	24.1	99.5	80-120	0.183	20
Batch: BBF0552 - W FIA										
Blank (BBF0552-BLK1)					Prepared & Analyzed: 6/15/2021					
Ammonia/N	ND		0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0552 - W FIA (Continued)										
Blank (BBF0552-BLK2)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 6/15/2021
Blank (BBF0552-BLK3)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 6/15/2021
Blank (BBF0552-BLK4)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 6/15/2021
Blank (BBF0552-BLK5)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 6/15/2021
Blank (BBF0552-BLK6)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 6/15/2021
LCS (BBF0552-BS1)										
Ammonia/N	0.201		0.0200	mg/L	0.200		101	90-110		Prepared & Analyzed: 6/15/2021
LCS (BBF0552-BS2)										
Ammonia/N	0.199		0.0200	mg/L	0.200		99.6	90-110		Prepared & Analyzed: 6/15/2021
LCS (BBF0552-BS3)										
Ammonia/N	0.200		0.0200	mg/L	0.200		100	90-110		Prepared & Analyzed: 6/15/2021
Matrix Spike (BBF0552-MS1)										
Ammonia/N	0.346		0.0200	mg/L	0.200	0.132	107	80-120		Source: WBF0079-02 Prepared & Analyzed: 6/15/2021
Matrix Spike (BBF0552-MS2)										
Ammonia/N	0.267		0.0200	mg/L	0.200	0.0643	101	80-120		Source: WBF0208-02 Prepared & Analyzed: 6/15/2021

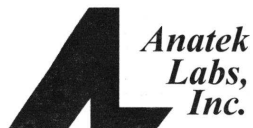
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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0552 - W FIA (Continued)										
Matrix Spike (BBF0552-MS3)		Source: WBF0287-02			Prepared & Analyzed: 6/15/2021					
Ammonia/N	0.192		0.0200	mg/L	0.200	ND	96.0	80-120		
Matrix Spike Dup (BBF0552-MSD1)		Source: WBF0079-02			Prepared & Analyzed: 6/15/2021					
Ammonia/N	0.330		0.0200	mg/L	0.200	0.132	99.2	80-120	4.79	20
Matrix Spike Dup (BBF0552-MSD2)		Source: WBF0208-02			Prepared & Analyzed: 6/15/2021					
Ammonia/N	0.260		0.0200	mg/L	0.200	0.0643	97.6	80-120	2.74	20
Matrix Spike Dup (BBF0552-MSD3)		Source: WBF0287-02			Prepared & Analyzed: 6/15/2021					
Ammonia/N	0.183		0.0200	mg/L	0.200	ND	91.4	80-120	4.86	20



Chain of Custody Record

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Anatek
Log-In #

WBE0835



Due: 06/07/21

Company Name: <u>Great West Engineering</u>	Project Manager: <u>Craig Sauer</u>
Address: <u>9221 N Division St</u>	Project Name & #: <u>Alcoa Q2 L-Bar</u>
City: <u>Spokane</u> State: <u>WA</u> Zip: <u>99021</u>	Email Address: <u>csauer@greatwesteng.com</u>
Phone: <u>509-994-9938</u>	Purchase Order #: <u>Alcoa</u>
Fax:	Sampler Name & phone: <u>craig sauer / 509-994-9938</u>

Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other*
*All rush order requests must be prior approved.
Phone
Mail
Fax
Email

Provide Sample Description				List Analyses Requested										Note Special Instructions/Comments	
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative: # of Containers	Sample Volume	NH3, Cl, TDS	Ammonia Nitrate, NO3	Ammonia Nitrite, NO2	Ammonia Total Nitrogen, TN	Ammonia Total Phosphorus, TP	Turbidity	pH			
	052021P12	5/20 0750	W	2		X	X	X	X	X	X			*Analyses requested only NH3, Cl, TDS, and turbidity. Additional samples: MS/MSD: 052021PW (5/20, 1220) FD: 052021FD3 (5/20, 1430)	
	052021P13	5/20 0820	W	2		X	X	X	X	X	X				
	052021SA10	5/20 0850	W	2		X	X	X	X	X	X				
	052021SA11	5/20 0910	W	2		X	X	X	X	X	X				
	052021SA14	5/20 0925	W	2		X	X	X	X	X	X				
	052021P09	5/20 1245	W	2		X	X	X	X	X	X				
	052021PW	5/20 1220	W	2		X	X	X	X	X	X				
	052021P05	5/20 1105	W	2		X	X	X	X	X	X				
	052021P06	5/20 1125	W	2		X	X	X	X	X	X				
	052021P19	5/20 1050	W	2		X	X	X	X	X	X				
	052021P20B	5/20 1025	W	2		X	X	X	X	X	X			Inspection Checklist	
	052021P25	5/20 1005	W	2		X	X	X	X	X	X				
	052021P27	5/20 1150	W	2		X	X	X	X	X	X				

	Printed Name	Signature	Company	Date	Time
Relinquished by	<u>Craig Sauer</u>	<u>[Signature]</u>	<u>Great West</u>	<u>5/20</u>	<u>1625</u>
Received by	<u>KScoff</u>	<u>[Signature]</u>	<u>Anatek</u>	<u>5/20/21</u>	<u>1625</u>
Relinquished by					
Received by					
Relinquished by					
Received by					

Received Intact?	☒	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N
Cooler?	☒	N
Ice/Ice Packs Present?	☒	N
Temperature (°C):	<u>7.8° IR#1</u>	
Preservative:	<u>H2SO4 < 2004/162</u>	
	<u>P2001015</u>	
Date & Time:	<u>5/20/21</u>	
Inspected By:	<u>hd/c/i</u>	<u>30pcu</u>

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WBK0468
Project: Alcoa Q4 L-Bar
Reported: 3/23/2022 17:26

Analytical Results Report

Sample Location: 111121 P12
Lab/Sample Number: WBK0468-01 **Collect Date:** 11/11/21 07:50
Date Received: 11/11/21 15:20 **Collected By:** Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:30	TLM	SM 4500-NH3 H	
Chloride	6.49	mg/L	0.100	11/12/21 22:35	ZML	EPA 300.0	
pH	7.81	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	681	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	0.576	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P13
Lab/Sample Number: WBK0468-02 Collect Date: 11/11/21 08:25
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	32.5	mg/L	0.400	12/1/21 16:08	TLM	SM 4500-NH3 H	
Chloride	1100	mg/L	5.00	11/15/21 15:36	ZML	EPA 300.0	
pH	7.51	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	6070	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	1.65	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 SA10
Lab/Sample Number: WBK0468-03 Collect Date: 11/11/21 09:20
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	704	mg/L	10.0	12/1/21 16:27	TLM	SM 4500-NH3 H	
Chloride	16600	mg/L	50.0	11/19/21 13:14	ZML	EPA 300.0	
pH	7.37	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	14300	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	0.502	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 SA11
Lab/Sample Number: WBK0468-04 Collect Date: 11/11/21 09:05
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	53.9	mg/L	0.800	12/1/21 16:30	TLM	SM 4500-NH3 H	
Chloride	5370	mg/L	50.0	11/29/21 16:55	ZML	EPA 300.0	
pH	8.08	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	10900	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	0.408	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 SA14
Lab/Sample Number: WBK0468-05 Collect Date: 11/11/21 08:50
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	16.6	mg/L	0.400	12/1/21 16:16	TLM	SM 4500-NH3 H	
Chloride	960	mg/L	5.00	11/16/21 17:50	ZML	EPA 300.0	
pH	9.85	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	3170	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	0.409	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P09
Lab/Sample Number: WBK0468-06 Collect Date: 11/11/21 13:10
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	1.12	mg/L	0.0200	12/1/21 14:39	TLM	SM 4500-NH3 H	
Chloride	421	mg/L	5.00	11/16/21 18:22	ZML	EPA 300.0	
pH	7.97	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	1640	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	0.239	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 PW
Lab/Sample Number: WBK0468-07 Collect Date: 11/11/21 13:20
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:40	TLM	SM 4500-NH3 H	
Chloride	2.56	mg/L	0.100	11/13/21 1:03	ZML	EPA 300.0	
pH	7.87	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	254	mg/L	5.00	11/12/21 14:27	KAS	SM 2540 C	
Turbidity	67.4	NTU	0.200	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P05
Lab/Sample Number: WBK0468-08 Collect Date: 11/11/21 11:20
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:41	TLM	SM 4500-NH3 H	
Chloride	1980	mg/L	10.0	11/16/21 18:22	ZML	EPA 300.0	
pH	7.31	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	3720	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	15.0	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P06
Lab/Sample Number: WBK0468-09 Collect Date: 11/11/21 11:50
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0958	mg/L	0.0200	12/1/21 14:42	TLM	SM 4500-NH3 H	
Chloride	177	mg/L	20.0	11/19/21 12:24	ZML	EPA 300.0	
pH	7.81	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	457	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	0.215	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P19
Lab/Sample Number: WBK0468-10 Collect Date: 11/11/21 11:00
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:44	TLM	SM 4500-NH3 H	
Chloride	5320	mg/L	20.0	11/13/21 2:10	ZML	EPA 300.0	
pH	6.91	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	6230	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	0.728	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P20B
Lab/Sample Number: WBK0468-11 Collect Date: 11/11/21 10:30
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	19.2	mg/L	1.00	12/1/21 16:23	TLM	SM 4500-NH3 H	
Chloride	2100	mg/L	10.0	11/16/21 18:56	ZML	EPA 300.0	
pH	7.33	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	4600	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	1.51	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P25
Lab/Sample Number: WBK0468-12 Collect Date: 11/11/21 09:55
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.184	mg/L	0.0200	12/1/21 14:49	TLM	SM 4500-NH3 H	
Chloride	820	mg/L	25.0	11/19/21 14:04	ZML	EPA 300.0	
pH	7.42	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	1640	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	2.62	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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Analytical Results Report

(Continued)

Sample Location: 111121 P27
Lab/Sample Number: WBK0468-13 Collect Date: 11/11/21 12:10
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:50	TLM	SM 4500-NH3 H	
Chloride	6250	mg/L	20.0	11/16/21 18:39	ZML	EPA 300.0	
pH	7.09	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	10900	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	0.571	NTU	0.100	11/11/21 16:15	ARY	EPA 180.1	

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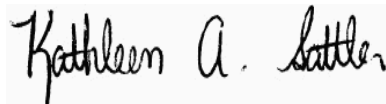
Analytical Results Report

(Continued)

Sample Location: 111121 FD3
Lab/Sample Number: WBK0468-14 Collect Date: 11/11/21 14:00
Date Received: 11/11/21 15:20 Collected By: Craig Sauer
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	12/1/21 14:51	TLM	SM 4500-NH3 H	
Chloride	0.968	mg/L	0.100	11/23/21 22:31	ZML	EPA 300.0	
pH	7.88	pH Units	1.00	11/11/21 15:00	ARY	SM 4500-H-B	
TDS	279	mg/L	5.00	11/17/21 13:40	KAS	SM 2540 C	M3
Turbidity	1.51	NTU	0.100	11/11/21 16:15	KAS	EPA 180.1	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

M3 Spike recovery value is unusable. Analyte concentration disproportionate to the spike level. Blank spike recovery acceptable.
PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

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The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0436 - W Wet Chem										
Blank (BBK0436-BLK1)										
Turbidity	ND		0.100	NTU	Prepared & Analyzed: 11/11/2021					
Batch: BBK0449 - W Wet Chem										
Blank (BBK0449-BLK1)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 11/12/2021					
Blank (BBK0449-BLK2)										
TDS	ND		5.00	mg/L	Prepared & Analyzed: 11/12/2021					
LCS (BBK0449-BS1)										
TDS	466			mg/L	500		93.2	80-120		
LCS (BBK0449-BS2)										
TDS	481			mg/L	500		96.2	80-120		
Matrix Spike (BBK0449-MS1)										
TDS	1590		5.00	mg/L	500	986	120	80-120		
Matrix Spike Dup (BBK0449-MSD1)										
TDS	1470		5.00	mg/L	500	986	96.8	80-120	7.72	20
Batch: BBK0471 - W Ions										
Blank (BBK0471-BLK1)										
Chloride	ND		0.100	mg/L	Prepared & Analyzed: 11/13/2021					

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0471 - W Ions (Continued)										
Blank (BBK0471-BLK2)										
Chloride	ND		0.100	mg/L						Prepared & Analyzed: 11/12/2021
LCS (BBK0471-BS1)										
Chloride	3.78			mg/L	4.00		94.5	90-110		Prepared & Analyzed: 11/12/2021
LCS (BBK0471-BS2)										
Chloride	3.86			mg/L	4.00		96.5	90-110		Prepared & Analyzed: 11/13/2021
Batch: BBK0562 - W Ions										
Blank (BBK0562-BLK1)										
Chloride	ND		0.100	mg/L						Prepared & Analyzed: 11/16/2021
LCS (BBK0562-BS1)										
Chloride	3.74			mg/L	4.00		93.4	90-110		Prepared & Analyzed: 11/16/2021
Batch: BBK0569 - W Wet Chem										
Blank (BBK0569-BLK1)										
TDS	ND	M3	5.00	mg/L						Prepared & Analyzed: 11/17/2021
LCS (BBK0569-BS1)										
TDS	474	M3		mg/L	500		94.8	80-120		Prepared & Analyzed: 11/17/2021
LCS Dup (BBK0569-BSD1)										
TDS	505	M3		mg/L	500		101	80-120	6.33	20

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0569 - W Wet Chem (Continued)										
Duplicate (BBK0569-DUP1)		Source: WBK0468-09			Prepared & Analyzed: 11/17/2021					
TDS	459	M3	5.00	mg/L		457			0.437	20
Matrix Spike (BBK0569-MS1)		Source: WBK0468-13			Prepared & Analyzed: 11/17/2021					
TDS	10200	M3	5.00	mg/L	500	10900	NR	80-120		
Matrix Spike Dup (BBK0569-MSD1)		Source: WBK0468-13			Prepared & Analyzed: 11/17/2021					
TDS	10100	M3	5.00	mg/L	500	10900	NR	80-120	1.06	20
Batch: BBK0687 - W Ions										
Blank (BBK0687-BLK1)		Prepared & Analyzed: 11/19/2021								
Chloride	ND		0.100	mg/L						
LCS (BBK0687-BS1)		Prepared & Analyzed: 11/19/2021								
Chloride	4.00			mg/L	4.00		99.9	90-110		
Batch: BBK0689 - W Ions										
Blank (BBK0689-BLK1)		Prepared & Analyzed: 11/19/2021								
Chloride	ND		0.100	mg/L						
LCS (BBK0689-BS1)		Prepared & Analyzed: 11/19/2021								
Chloride	4.00			mg/L	4.00		99.9	90-110		
Matrix Spike (BBK0689-MS1)		Source: WBK0736-02			Prepared & Analyzed: 11/19/2021					
Chloride	7.52			mg/L	4.00	2.90	115	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0689 - W Ions (Continued)										
Matrix Spike Dup (BBK0689-MSD1)					Source: WBK0736-02					
Chloride	7.71			mg/L	4.00	2.90	120	80-120	2.51	20
Batch: BBK0781 - W Ions										
Blank (BBK0781-BLK1)					Source: WBK0736-02					
Chloride	ND		0.100	mg/L	Prepared & Analyzed: 11/23/2021					
Blank (BBK0781-BLK2)					Source: WBK0736-02					
Chloride	ND		0.100	mg/L	Prepared & Analyzed: 11/24/2021					
LCS (BBK0781-BS1)					Source: WBK0736-02					
Chloride	3.82			mg/L	4.00		95.5	90-110		
LCS (BBK0781-BS2)					Source: WBK0736-02					
Chloride	3.81			mg/L	4.00		95.2	90-110		
Matrix Spike (BBK0781-MS1)					Source: WBK0812-03					
Chloride	6.08			mg/L	4.00	2.31	94.3	80-120		
Matrix Spike Dup (BBK0781-MSD1)					Source: WBK0812-03					
Chloride	6.25			mg/L	4.00	2.31	98.3	80-120	2.61	20
Batch: BBK0882 - W Ions										
Blank (BBK0882-BLK1)					Source: WBK0812-03					
Chloride	ND		0.100	mg/L	Prepared & Analyzed: 11/29/2021					

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0882 - W Ions (Continued)										
Blank (BBK0882-BLK2)										
Chloride	ND		0.100	mg/L						Prepared & Analyzed: 11/29/2021
LCS (BBK0882-BS1)										
Chloride	3.70			mg/L	4.00		92.5	90-110		Prepared & Analyzed: 11/30/2021
LCS (BBK0882-BS2)										
Chloride	3.62			mg/L	4.00		90.5	90-110		Prepared & Analyzed: 11/29/2021
Batch: BBL0031 - W FIA										
Blank (BBL0031-BLK1)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021
Blank (BBL0031-BLK2)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021
Blank (BBL0031-BLK3)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021
Blank (BBL0031-BLK4)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021
Blank (BBL0031-BLK5)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021
Blank (BBL0031-BLK6)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 12/1/2021

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0031 - W FIA (Continued)										
Blank (BBL0031-BLK7)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	ND		0.0200	mg/L						
LCS (BBL0031-BS1)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.185		0.0200	mg/L	0.200		92.6	90-110		
LCS (BBL0031-BS2)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.191		0.0200	mg/L	0.200		95.6	90-110		
LCS (BBL0031-BS3)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.186		0.0200	mg/L	0.200		93.2	90-110		
LCS (BBL0031-BS4)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.203		0.0200	mg/L	0.200		101	90-110		
LCS (BBL0031-BS5)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.210		0.0200	mg/L	0.200		105	90-110		
Matrix Spike (BBL0031-MS1)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	1.53	Source: WBK0318-02	0.0200	mg/L	0.200	1.36	86.5	80-120		
Matrix Spike (BBL0031-MS2)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	1.07	Source: WBK0485-02	0.0200	mg/L	0.200	0.859	105	80-120		
Matrix Spike (BBL0031-MS3)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.361	Source: WBK0513-02	0.0200	mg/L	0.200	0.187	86.7	80-120		
Matrix Spike (BBL0031-MS4)					Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.364	Source: WBK0769-02	0.0200	mg/L	0.200	0.158	103	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0031 - W FIA (Continued)										
Matrix Spike Dup (BBL0031-MSD1)		Source: WBK0318-02			Prepared & Analyzed: 12/1/2021					
Ammonia/N	1.55		0.0200	mg/L	0.200	1.36	96.9	80-120	1.36	20
Matrix Spike Dup (BBL0031-MSD2)		Source: WBK0485-02			Prepared & Analyzed: 12/1/2021					
Ammonia/N	1.08		0.0200	mg/L	0.200	0.859	110	80-120	0.838	20
Matrix Spike Dup (BBL0031-MSD3)		Source: WBK0513-02			Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.366		0.0200	mg/L	0.200	0.187	89.5	80-120	1.57	20
Matrix Spike Dup (BBL0031-MSD4)		Source: WBK0769-02			Prepared & Analyzed: 12/1/2021					
Ammonia/N	0.329		0.0200	mg/L	0.200	0.158	85.5	80-120	9.84	20
Batch: BCC0552 - W Ions										
Blank (BCC0552-BLK1)		Prepared & Analyzed: 11/15/2021								
Chloride	ND		0.100	mg/L						



Chain of Custody Record

Anatek Labs
1282 Alturas Drive, Moscow
504 E Sprague Ste D, Spokane

WBK0468



Due: 11/30/21

Company Name: <u>Great West Engineering</u>			Project Manager: <u>Craig Sauer</u>		
Address: <u>9221 N Division St</u>			Project Name & #: <u>Alcoa Q4 L-Bar</u>		
City: <u>Spokane</u>	State: <u>WA</u>	Zip: <u>99021</u>	Purchase Order #: <u>Alcoa</u>		
Phone: <u>509-994-9938</u>			Sampler Name & Phone: <u>Craig Sauer / 509-994-9938</u>		
Email Address(es): <u>csauer@greatwesteng.com</u>					

Turn Around

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other*

Phone _____
 Email _____
 *All rush order requests must have prior approval

				List Analyses Requested										Note Special Instructions/Comments		
				Preservative:												
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	NH3, CI, TDS	Turbidity	PH								
	111121 P12	11/11 0750	W	2		X	X	X								Additional samples: ms/msd: 111121PW (11/11, 1320) FD: 111121FD3 (11/11, 1400)
	111121 P13	11/11 0825	W	2		X	X	X								
	111121 SA10	11/11 0920	W	2		X	X	X								
	111121 SA11	11/11 0905	W	2		X	X	X								
	111121 SA14	11/11 0850	W	2		X	X	X								
	111121 P09	11/11 1310	W	2		X	X	X								
	111121 PW	11/11 1320	W	2		X	X	X								
	111121 P05	11/11 1120	W	2		X	X	X								
	111121 P06	11/11 1150	W	2		X	X	X								
	111121 P19	11/11 1100	W	2		X	X	X								
	111121 P20B	11/11 1030	W	2		X	X	X								
	111121 P25	11/11 0955	W	2		X	X	X								
	111121 P27	11/11 1210	W	2		X	X	X								

Printed Name		Signature		Company	Date	Time
Relinquished by	<u>Duncan Broedlow</u>		<u>[Signature]</u>	<u>Great West Eng</u>	<u>11/11/21</u>	<u>1520</u>
Received by	<u>Broek Geyr</u>		<u>[Signature]</u>	<u>Anatek</u>	<u>11-11-21</u>	<u>1520</u>
Relinquished by						
Received by						
Relinquished by						
Received by						

Inspection Checklist		
Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	<u>Y</u>	N
Ice/Ice Packs Present?	<u>Y</u>	N
Temperature (°C): <u>8-8.8-7.0 IP1</u>		
Number of Containers: _____		
Shipped Via: _____		
Preservative: _____		
Date & Time: _____		
Inspected By: <u>See Attached</u>		

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.



Anatek Labs, Inc.

Sample Receipt and Preservation Form

WBK0468



Due: 11/30/21

Client Name: Great West Engineering Project: _____ (apply Anatek sample label here)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 8.8 Cooler Temp Corrected (°C): 8.7 Thermometer Used: 1127^H

Comments:

Samples Received Intact? Yes No N/A

Chain of Custody Present? Yes No N/A

Samples Received Within Hold Time? Yes No N/A

Samples Properly Preserved? Yes No N/A

VOC Vials Free of Headspace (<6mm)? Yes No N/A

VOC Trip Blanks Present? Yes No N/A

Labels and Chains Agree? Yes No N/A

Total Number of Sample Bottles Received: 26

Chain of Custody Fully Completed? Yes No N/A

Correct Containers Received? Yes No N/A

Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

H2SO4 2102389-2
Ph2001015-

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [Signature] Date/Time: 1533 11/11/21

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WCE0483
Project: NWA L-Bar Q2
Reported: 3/5/2023 21:55

Analytical Results Report

Sample Location: 051222 P12
Lab/Sample Number: WCE0483-01 **Collect Date:** 05/12/22 07:25
Date Received: 05/12/22 14:15 **Collected By:** Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	5/17/22 15:45	TLM	SM 4500-NH3 H	
Chloride	6.54	mg/L	0.100	5/13/22 11:08	ZML	EPA 300.0	
Nitrate/N	1.33	mg/L	0.100	5/13/22 11:08	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 11:08	ZML	EPA 300.0	
TDS	601	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	0.137	NTU	0.100	5/13/22 9:10	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0424	mg/L	0.00100	6/2/22 15:57	JLG	EPA 200.8	
Manganese	0.0299	mg/L	0.00100	6/1/22 17:00	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 15:57	JLG	EPA 200.8	
Thallium	0.00290	mg/L	0.00100	6/1/22 17:00	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P13
Lab/Sample Number: WCE0483-02 Collect Date: 05/12/22 07:55
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	24.6	mg/L	0.400	5/17/22 16:47	TLM	SM 4500-NH3 H	
Chloride	1140	mg/L	5.00	5/17/22 4:01	ZML	EPA 300.0	
Nitrate/N	2.38	mg/L	0.100	5/13/22 11:25	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 11:25	ZML	EPA 300.0	
TDS	4240	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	2.03	NTU	0.100	5/13/22 9:13	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0841	mg/L	0.00100	6/2/22 16:00	JLG	EPA 200.8	
Manganese	1.54	mg/L	0.00100	6/1/22 17:04	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:00	JLG	EPA 200.8	
Thallium	0.00500	mg/L	0.00100	6/1/22 17:04	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 SA10
Lab/Sample Number: WCE0483-03 Collect Date: 05/12/22 09:05
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	539	mg/L	10.0	5/23/22 13:45	TLM	SM 4500-NH3 H	
Chloride	7440	mg/L	25.0	5/24/22 21:17	ZML	EPA 300.0	
Nitrate/N	1.27	mg/L	0.100	5/13/22 11:41	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 11:41	ZML	EPA 300.0	
TDS	19700	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	1.20	NTU	0.100	5/13/22 9:14	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0472	mg/L	0.00100	6/2/22 16:04	JLG	EPA 200.8	
Manganese	2.81	mg/L	0.00100	6/1/22 17:07	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:04	JLG	EPA 200.8	
Thallium	0.00400	mg/L	0.00100	6/1/22 17:07	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 SA11
Lab/Sample Number: WCE0483-04 Collect Date: 05/12/22 08:45
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	78.6	mg/L	0.400	5/17/22 16:52	TLM	SM 4500-NH3 H	
Chloride	7330	mg/L	25.0	5/24/22 21:33	ZML	EPA 300.0	
Nitrate/N	0.240	mg/L	0.100	5/13/22 11:58	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 11:58	ZML	EPA 300.0	
TDS	15800	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	1.06	NTU	0.100	5/13/22 9:19	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0508	mg/L	0.00100	6/2/22 16:07	JLG	EPA 200.8	
Manganese	0.474	mg/L	0.00100	6/1/22 17:10	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:07	JLG	EPA 200.8	
Thallium	0.00500	mg/L	0.00100	6/1/22 17:10	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 SA14
Lab/Sample Number: WCE0483-05 Collect Date: 05/12/22 08:35
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	14.5	mg/L	0.400	5/17/22 16:55	TLM	SM 4500-NH3 H	
Chloride	425	mg/L	0.100	5/16/22 15:19	ZML	EPA 300.0	
Nitrate/N	ND	mg/L	0.100	5/13/22 12:14	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 12:14	ZML	EPA 300.0	
TDS	3150	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	0.272	NTU	0.100	5/13/22 9:22	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0197	mg/L	0.00100	6/2/22 16:10	JLG	EPA 200.8	
Manganese	0.00246	mg/L	0.00100	6/1/22 17:13	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:10	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:13	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P09
Lab/Sample Number: WCE0483-06 Collect Date: 05/12/22 09:40
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	1.94	mg/L	0.0200	5/17/22 15:51	TLM	SM 4500-NH3 H	
Chloride	1030	mg/L	5.00	5/17/22 21:33	ZML	EPA 300.0	
Nitrate/N	0.380	mg/L	0.100	5/13/22 12:31	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 12:31	ZML	EPA 300.0	
TDS	1790	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	4.37	NTU	0.100	5/13/22 9:35	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.296	mg/L	0.00100	6/2/22 16:14	JLG	EPA 200.8	
Manganese	0.153	mg/L	0.00100	6/1/22 17:17	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:14	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:17	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 PW
Lab/Sample Number: WCE0483-07 Collect Date: 05/12/22 09:50
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	5/17/22 15:52	TLM	SM 4500-NH3 H	
Chloride	1.10	mg/L	0.100	5/13/22 12:47	ZML	EPA 300.0	
Nitrate/N	ND	mg/L	0.100	5/13/22 12:47	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 12:47	ZML	EPA 300.0	
TDS	253	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	1.08	NTU	0.100	5/13/22 9:37	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.00823	mg/L	0.00100	6/2/22 16:17	JLG	EPA 200.8	
Manganese	0.00274	mg/L	0.00100	6/1/22 17:20	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:17	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:20	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P05
Lab/Sample Number: WCE0483-08 Collect Date: 05/12/22 11:15
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	5/17/22 15:54	TLM	SM 4500-NH3 H	
Chloride	901	mg/L	10.0	5/17/22 21:49	ZML	EPA 300.0	
Nitrate/N	0.190	mg/L	0.100	5/13/22 13:37	ZML	EPA 300.0	
Nitrite/N	0.979	mg/L	0.100	5/13/22 13:37	ZML	EPA 300.0	
TDS	3340	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	0.290	NTU	0.100	5/13/22 9:45	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0823	mg/L	0.00100	6/2/22 16:33	JLG	EPA 200.8	
Manganese	0.221	mg/L	0.00100	6/1/22 17:29	JLG	EPA 200.8	
Selenium	0.00453	mg/L	0.00100	6/2/22 16:33	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:29	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P06
Lab/Sample Number: WCE0483-09 Collect Date: 05/12/22 11:35
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.462	mg/L	0.0200	5/17/22 15:57	TLM	SM 4500-NH3 H	
Chloride	70.2	mg/L	0.500	5/16/22 16:09	ZML	EPA 300.0	
Nitrate/N	0.251	mg/L	0.100	5/13/22 13:54	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 13:54	ZML	EPA 300.0	
TDS	494	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	68.0	NTU	0.200	5/13/22 9:52	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.185	mg/L	0.00100	6/2/22 16:37	JLG	EPA 200.8	
Manganese	1.15	mg/L	0.00100	6/1/22 17:33	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:37	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:33	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P19
Lab/Sample Number: WCE0483-10 Collect Date: 05/12/22 10:50
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.846	mg/L	0.0200	5/17/22 15:58	TLM	SM 4500-NH3 H	
Chloride	6060	mg/L	25.0	5/24/22 21:50	ZML	EPA 300.0	
Nitrate/N	0.253	mg/L	0.100	5/13/22 14:10	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 14:10	ZML	EPA 300.0	
TDS	1320	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	16.7	NTU	0.100	5/13/22 9:55	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.164	mg/L	0.00100	6/2/22 16:40	JLG	EPA 200.8	
Manganese	1.89	mg/L	0.00100	6/1/22 17:36	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:40	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:36	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P20B
Lab/Sample Number: WCE0483-11 Collect Date: 05/12/22 10:20
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	11.6	mg/L	0.300	5/17/22 16:58	TLM	SM 4500-NH3 H	
Chloride	15.8	mg/L	0.100	5/18/22 0:18	ZML	EPA 300.0	
Nitrate/N	12.7	mg/L	0.100	5/14/22 0:39	ZML	EPA 300.0	
Nitrite/N	0.821	mg/L	0.100	5/14/22 0:39	ZML	EPA 300.0	
TDS	4040	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	1.23	NTU	0.100	5/13/22 9:56	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0506	mg/L	0.00100	6/2/22 16:56	JLG	EPA 200.8	
Manganese	0.496	mg/L	0.00100	6/1/22 17:52	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 16:56	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:52	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P25
Lab/Sample Number: WCE0483-12 Collect Date: 05/12/22 08:20
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.477	mg/L	0.0200	5/17/22 16:01	TLM	SM 4500-NH3 H	
Chloride	849	mg/L	5.00	5/18/22 1:24	ZML	EPA 300.0	
Nitrate/N	0.108	mg/L	0.100	5/13/22 21:53	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 21:53	ZML	EPA 300.0	
TDS	1820	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	84.6	NTU	0.300	5/13/22 10:02	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0391	mg/L	0.00100	6/2/22 17:00	JLG	EPA 200.8	
Manganese	7.68	mg/L	0.00100	6/1/22 17:55	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 17:00	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:55	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 051222 P27
Lab/Sample Number: WCE0483-13 Collect Date: 05/12/22 12:05
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	5/17/22 16:02	TLM	SM 4500-NH3 H	
Chloride	5840	mg/L	20.0	5/25/22 17:21	ZML	EPA 300.0	
Nitrate/N	0.796	mg/L	0.100	5/13/22 22:09	ZML	EPA 300.0	
Nitrite/N	0.958	mg/L	0.100	5/13/22 22:09	ZML	EPA 300.0	
TDS	8940	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	0.327	NTU	0.100	5/13/22 10:06	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	1.99	mg/L	0.00100	6/2/22 17:03	JLG	EPA 200.8	
Manganese	0.115	mg/L	0.00100	6/1/22 17:59	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 17:03	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 17:59	JLG	EPA 200.8	

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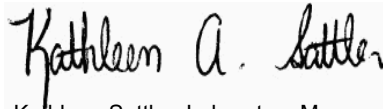
Analytical Results Report

(Continued)

Sample Location: 051222 FD3
Lab/Sample Number: WCE0483-14 Collect Date: 05/12/22 06:00
Date Received: 05/12/22 14:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	ND	mg/L	0.0200	5/17/22 16:03	TLM	SM 4500-NH3 H	
Chloride	1.13	mg/L	0.100	5/21/22 0:34	ZML	EPA 300.0	
Nitrate/N	ND	mg/L	0.100	5/13/22 22:26	ZML	EPA 300.0	
Nitrite/N	ND	mg/L	0.100	5/13/22 22:26	ZML	EPA 300.0	
TDS	284	mg/L	5.00	5/17/22 14:03	EMG	SM 2540 C	
Turbidity	1.11	NTU	0.100	5/13/22 10:07	SBS	EPA 180.1	
Metals by ICP-MS							
Barium	0.0750	mg/L	0.00100	6/2/22 17:06	JLG	EPA 200.8	
Manganese	0.00299	mg/L	0.00100	6/1/22 18:02	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	6/2/22 17:06	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	6/1/22 18:02	JLG	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

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The results reported related only to the samples indicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0412 - W Ions										
Blank (BCE0412-BLK1)					Prepared & Analyzed: 5/13/2022					
Chloride	ND		0.100	mg/L						
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
Blank (BCE0412-BLK2)										
Chloride	ND		0.100	mg/L						
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
LCS (BCE0412-BS1)					Prepared & Analyzed: 5/13/2022					
Chloride	4.02			mg/L	4.00		100	90-110		
Nitrite-N	3.98			mg/L	4.00		99.5	90-110		
Nitrate-N	3.84			mg/L	4.00		95.9	90-110		
LCS (BCE0412-BS2)					Prepared & Analyzed: 5/13/2022					
Chloride	4.05			mg/L	4.00		101	90-110		
Nitrite-N	4.19			mg/L	4.00		105	90-110		
Nitrate-N	3.92			mg/L	4.00		98.0	90-110		
Matrix Spike (BCE0412-MS1)			Source: WCE0483-07		Prepared & Analyzed: 5/13/2022					
Chloride	5.04			mg/L	4.00	1.10	98.4	80-120		
Nitrite-N	4.15			mg/L	4.00	0.0171	103	80-120		
Nitrate-N	4.14			mg/L	4.00	0.0940	101	80-120		
Matrix Spike (BCE0412-MS2)			Source: WCE0483-14		Prepared & Analyzed: 5/13/2022					
Nitrite-N	4.14			mg/L	4.00	0.00	104	80-120		
Nitrate-N	3.96			mg/L	4.00	0.00	98.9	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0412 - W Ions (Continued)										
Matrix Spike Dup (BCE0412-MSD1)			Source: WCE0483-07		Prepared & Analyzed: 5/13/2022					
Chloride	4.99			mg/L	4.00	1.10	97.2	80-120	0.993	20
Nitrite-N	4.07			mg/L	4.00	0.0171	101	80-120	1.92	20
Nitrate-N	4.05			mg/L	4.00	0.0940	98.9	80-120	2.25	20
Matrix Spike Dup (BCE0412-MSD2)			Source: WCE0483-14		Prepared & Analyzed: 5/13/2022					
Nitrite-N	4.37			mg/L	4.00	0.00	109	80-120	5.29	20
Nitrate-N	4.08			mg/L	4.00	0.00	102	80-120	3.06	20
Batch: BCE0445 - W Wet Chem										
Blank (BCE0445-BLK1)					Prepared & Analyzed: 5/13/2022					
Turbidity	ND		0.100	NTU						
Batch: BCE0476 - W Ions										
Blank (BCE0476-BLK1)					Prepared & Analyzed: 5/16/2022					
Chloride	ND		0.100	mg/L						
Blank (BCE0476-BLK2)					Prepared & Analyzed: 5/16/2022					
Chloride	ND		0.100	mg/L						
LCS (BCE0476-BS1)					Prepared & Analyzed: 5/16/2022					
Chloride	4.08			mg/L	4.00		102	90-110		
LCS (BCE0476-BS2)					Prepared & Analyzed: 5/16/2022					
Chloride	4.11			mg/L	4.00		103	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0476 - W Ions (Continued)										
Matrix Spike (BCE0476-MS1)					Source: WCE0551-07		Prepared & Analyzed: 5/17/2022			
Chloride	4.63			mg/L	4.00	0.655	99.5	80-120		
Matrix Spike (BCE0476-MS2)					Source: WCE0552-05		Prepared & Analyzed: 5/17/2022			
Chloride	4.05			mg/L	4.00	0.301	93.8	80-120		
Matrix Spike Dup (BCE0476-MSD1)					Source: WCE0551-07		Prepared & Analyzed: 5/17/2022			
Chloride	4.60			mg/L	4.00	0.655	98.7	80-120	0.669	20
Matrix Spike Dup (BCE0476-MSD2)					Source: WCE0552-05		Prepared & Analyzed: 5/17/2022			
Chloride	4.08			mg/L	4.00	0.301	94.5	80-120	0.694	20
Batch: BCE0490 - W Wet Chem										
Blank (BCE0490-BLK1)					Prepared & Analyzed: 5/17/2022					
TDS	ND		5.00	mg/L						
Blank (BCE0490-BLK2)					Prepared & Analyzed: 5/17/2022					
TDS	ND		5.00	mg/L						
LCS (BCE0490-BS1)					Prepared & Analyzed: 5/17/2022					
TDS	434			mg/L	500		86.8	80-120		
LCS (BCE0490-BS2)					Prepared & Analyzed: 5/17/2022					
TDS	422			mg/L	500		84.4	80-120		
LCS Dup (BCE0490-BSD1)					Prepared & Analyzed: 5/17/2022					
TDS	512			mg/L	500		102	80-120	16.5	20

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0490 - W Wet Chem (Continued)										
LCS Dup (BCE0490-BSD2)					Prepared & Analyzed: 5/17/2022					
TDS	473			mg/L	500		94.6	80-120	11.4	20
Duplicate (BCE0490-DUP2)					Prepared & Analyzed: 5/17/2022					
TDS	260		5.00	mg/L		253			2.73	20
Matrix Spike (BCE0490-MS2)					Prepared & Analyzed: 5/17/2022					
TDS	872		10.0	mg/L	500	394	95.6	80-120		
Matrix Spike Dup (BCE0490-MSD2)					Prepared & Analyzed: 5/17/2022					
TDS	892		10.0	mg/L	500	394	99.6	80-120	2.27	20
Batch: BCE0511 - W FIA										
Blank (BCE0511-BLK1)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK2)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK3)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK4)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK5)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0511 - W FIA (Continued)										
Blank (BCE0511-BLK6)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK7)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0511-BLK8)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	ND		0.0200	mg/L						
LCS (BCE0511-BS1)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.193		0.0200	mg/L	0.200		96.6	90-110		
LCS (BCE0511-BS2)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.196		0.0200	mg/L	0.200		97.8	90-110		
LCS (BCE0511-BS3)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.193		0.0200	mg/L	0.200		96.6	90-110		
LCS (BCE0511-BS4)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.206		0.0200	mg/L	0.200		103	90-110		
Matrix Spike (BCE0511-MS1)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.461		0.0200	mg/L	0.200	0.281	90.0	80-120		
Matrix Spike (BCE0511-MS2)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.670		0.0200	mg/L	0.200	0.493	88.4	80-120		
Matrix Spike (BCE0511-MS3)					Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.300		0.0200	mg/L	0.200	0.109	95.6	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0511 - W FIA (Continued)										
Matrix Spike Dup (BCE0511-MSD1)			Source: WCE0290-02		Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.455		0.0200	mg/L	0.200	0.281	87.0	80-120	1.31	20
Matrix Spike Dup (BCE0511-MSD2)			Source: WCE0411-02		Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.663		0.0200	mg/L	0.200	0.493	84.8	80-120	1.11	20
Matrix Spike Dup (BCE0511-MSD3)			Source: WCE0511-02		Prepared & Analyzed: 5/17/2022					
Ammonia/N	0.331		0.0200	mg/L	0.200	0.109	111	80-120	9.76	20
Batch: BCE0531 - W Ions										
Blank (BCE0531-BLK1)					Prepared & Analyzed: 5/17/2022					
Chloride	ND		0.100	mg/L						
Blank (BCE0531-BLK2)					Prepared & Analyzed: 5/17/2022					
Chloride	ND		0.100	mg/L						
LCS (BCE0531-BS1)					Prepared & Analyzed: 5/17/2022					
Chloride	4.11			mg/L	4.00		103	90-110		
LCS (BCE0531-BS2)					Prepared & Analyzed: 5/18/2022					
Chloride	3.99			mg/L	4.00		99.7	90-110		
Matrix Spike (BCE0531-MS1)			Source: WCE0483-11		Prepared & Analyzed: 5/18/2022					
Chloride	19.5			mg/L	4.00	15.8	93.7	80-120		
Matrix Spike Dup (BCE0531-MSD1)			Source: WCE0483-11		Prepared & Analyzed: 5/18/2022					
Chloride	19.2			mg/L	4.00	15.8	85.4	80-120	1.71	20

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0596 - W Ions										
Blank (BCE0596-BLK1)					Prepared & Analyzed: 5/18/2022					
Chloride	ND		0.100	mg/L						
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
Blank (BCE0596-BLK2)										
					Prepared & Analyzed: 5/19/2022					
Chloride	ND		0.100	mg/L						
Nitrite-N	ND		0.100	mg/L						
Nitrate-N	ND		0.100	mg/L						
Matrix Spike (BCE0596-MS1)										
					Source: WCE0483-13		Prepared & Analyzed: 5/19/2022			
Nitrite-N	4.12			mg/L	4.00	0.00	103	80-120		
Nitrate-N	3.90			mg/L	4.00	0.00	97.5	80-120		
Batch: BCE0679 - W Ions										
Blank (BCE0679-BLK1)					Prepared & Analyzed: 5/20/2022					
Chloride	ND		0.100	mg/L						
Blank (BCE0679-BLK2)										
					Prepared & Analyzed: 5/20/2022					
Chloride	ND		0.100	mg/L						
LCS (BCE0679-BS1)										
					Prepared & Analyzed: 5/20/2022					
Chloride	4.07			mg/L	4.00		102	90-110		
LCS (BCE0679-BS2)										
					Prepared & Analyzed: 5/20/2022					
Chloride	4.00			mg/L	4.00		100	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0679 - W Ions (Continued)										
Matrix Spike (BCE0679-MS1)					Source: WCE0794-01		Prepared & Analyzed: 5/20/2022			
Chloride	7.99			mg/L	4.00	4.05	98.6	80-120		
Matrix Spike (BCE0679-MS2)					Source: WCE0483-14		Prepared & Analyzed: 5/21/2022			
Chloride	5.12			mg/L	4.00	1.13	99.6	80-120		
Matrix Spike Dup (BCE0679-MSD1)					Source: WCE0794-01		Prepared & Analyzed: 5/20/2022			
Chloride	7.96			mg/L	4.00	4.05	97.9	80-120	0.338	20
Matrix Spike Dup (BCE0679-MSD2)					Source: WCE0483-14		Prepared & Analyzed: 5/21/2022			
Chloride	5.18			mg/L	4.00	1.13	101	80-120	1.26	20
Batch: BCE0698 - W FIA										
Blank (BCE0698-BLK1)					Prepared & Analyzed: 5/23/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0698-BLK2)					Prepared & Analyzed: 5/23/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0698-BLK3)					Prepared & Analyzed: 5/23/2022					
Ammonia/N	ND		0.0200	mg/L						
Blank (BCE0698-BLK4)					Prepared & Analyzed: 5/23/2022					
Ammonia/N	ND		0.0200	mg/L						
LCS (BCE0698-BS1)					Prepared & Analyzed: 5/23/2022					
Ammonia/N	0.199		0.0200	mg/L	0.200		99.5	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0698 - W FIA (Continued)										
LCS (BCE0698-BS2)										
Ammonia/N	0.200		0.0200	mg/L	0.200		99.9	90-110		
Matrix Spike (BCE0698-MS1) Source: WCE0591-02										
Ammonia/N	0.286		0.0200	mg/L	0.200	0.0937	95.9	80-120		
Matrix Spike (BCE0698-MS2) Source: WCE0692-02										
Ammonia/N	0.255		0.0200	mg/L	0.200	0.0528	101	80-120		
Matrix Spike Dup (BCE0698-MSD1) Source: WCE0591-02										
Ammonia/N	0.287		0.0200	mg/L	0.200	0.0937	96.6	80-120	0.489	20
Matrix Spike Dup (BCE0698-MSD2) Source: WCE0692-02										
Ammonia/N	0.252		0.0200	mg/L	0.200	0.0528	99.6	80-120	1.18	20
Batch: BCE0761 - W Ions										
Blank (BCE0761-BLK1)										
Chloride	ND		0.100	mg/L						
Blank (BCE0761-BLK2)										
Chloride	ND		0.100	mg/L						
LCS (BCE0761-BS1)										
Chloride	4.07			mg/L	4.00		102	90-110		
LCS (BCE0761-BS2)										
Chloride	4.17			mg/L	4.00		104	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0761 - W Ions (Continued)										
Matrix Spike (BCE0761-MS1)					Source: WCE0822-02		Prepared & Analyzed: 5/25/2022			
Chloride	4.12			mg/L	4.00	0.132	99.6	80-120		
Matrix Spike Dup (BCE0761-MSD1)					Source: WCE0822-02		Prepared & Analyzed: 5/25/2022			
Chloride	4.18			mg/L	4.00	0.132	101	80-120	1.47	20
Batch: BCE0826 - W Ions										
Blank (BCE0826-BLK1)					Prepared & Analyzed: 5/25/2022					
Chloride	ND		0.100	mg/L						
Blank (BCE0826-BLK2)					Prepared & Analyzed: 5/25/2022					
Chloride	ND		0.100	mg/L						
LCS (BCE0826-BS1)					Prepared & Analyzed: 5/25/2022					
Chloride	4.28			mg/L	4.00		107	90-110		
LCS (BCE0826-BS2)					Prepared & Analyzed: 5/25/2022					
Chloride	4.08			mg/L	4.00		102	90-110		
Matrix Spike (BCE0826-MS1)					Source: WCE0943-01		Prepared & Analyzed: 5/26/2022			
Chloride	72.8			mg/L	4.00	68.8	101	80-120		
Matrix Spike Dup (BCE0826-MSD1)					Source: WCE0943-01		Prepared & Analyzed: 5/26/2022			
Chloride	72.7			mg/L	4.00	68.8	98.5	80-120	0.165	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0420 - W 3010 Digest										
Blank (BCE0420-BLK1)					Prepared: 5/16/2022 Analyzed: 6/1/2022					
Manganese	ND		0.00100	mg/L						
Selenium	ND		0.00100	mg/L						
Barium	ND		0.00100	mg/L						
Thallium	ND		0.00100	mg/L						
LCS (BCE0420-BS1)					Prepared: 5/16/2022 Analyzed: 6/1/2022					
Manganese	0.0496		0.00100	mg/L	0.0500		99.1	85-115		
Thallium	0.0520		0.00100	mg/L	0.0500		104	85-115		
Selenium	0.0577		0.00100	mg/L	0.0500		115	85-115		
Barium	0.0534		0.00100	mg/L	0.0500		107	85-115		
Matrix Spike (BCE0420-MS1)					Source: WCE0483-07		Prepared: 5/16/2022 Analyzed: 6/1/2022			
Manganese	0.0402		0.00100	mg/L	0.0500	0.00274	74.9	70-130		
Matrix Spike (BCE0420-MS2)					Source: WCE0483-14		Prepared: 5/16/2022 Analyzed: 6/2/2022			
Selenium	0.0676	M1	0.00100	mg/L	0.0500	ND	135	70-130		
Thallium	0.0564		0.00100	mg/L	0.0500	ND	113	70-130		
Matrix Spike (BCE0420-MS3)					Source: WCE0483-07		Prepared: 5/16/2022 Analyzed: 6/2/2022			
Selenium	5.75		0.100	mg/L	5.00	ND	115	70-130		

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCE0420 - W 3010 Digest (Continued)										
Matrix Spike (BCE0420-MS3)		Source: WCE0483-07		Prepared: 5/16/2022 Analyzed: 6/2/2022						
Barium	4.52		0.100	mg/L	5.00	0.00823	90.3	70-130		
Matrix Spike (BCE0420-MS4)		Source: WCE0483-14		Prepared: 5/16/2022 Analyzed: 6/2/2022						
Barium	4.43		0.100	mg/L	5.00	0.0750	87.1	70-130		
Selenium	5.65		0.100	mg/L	5.00	ND	113	70-130		
Matrix Spike Dup (BCE0420-MSD1)		Source: WCE0483-07		Prepared: 5/16/2022 Analyzed: 6/1/2022						
Manganese	0.0360		0.00100	mg/L	0.0500	0.00274	66.5	70-130	11.0	20
Matrix Spike Dup (BCE0420-MSD2)		Source: WCE0483-14		Prepared: 5/16/2022 Analyzed: 6/1/2022						
Thallium	0.0539		0.00100	mg/L	0.0500	ND	108	70-130	4.53	20
Matrix Spike Dup (BCE0420-MSD3)		Source: WCE0483-07		Prepared: 5/16/2022 Analyzed: 6/2/2022						
Barium	4.31		0.100	mg/L	5.00	0.00823	86.1	70-130	4.76	20
Selenium	5.40		0.100	mg/L	5.00	ND	108	70-130	6.17	20
Matrix Spike Dup (BCE0420-MSD4)		Source: WCE0483-14		Prepared: 5/16/2022 Analyzed: 6/2/2022						
Selenium	5.47		0.100	mg/L	5.00	ND	109	70-130	3.26	20
Barium	4.80		0.100	mg/L	5.00	0.0750	94.5	70-130	8.06	20



Chain of Custody Record

Anatek Labs
1282 Alturas Drive, Moscow
504 E Sprague Ste D, Spokane

WCE0483



Due: 05/27/22

Company Name: Great West Engineering	Project Manager: Craig Sauer
Address: 9221 N Division St	Project Name & #: NWA L-Bar Q2
City: Spokane State: WA Zip: 99021	Purchase Order #: Alcoa
Phone: 509-994-9938	Sampler Name & Phone: Duncan Breedlove 916-969-4834
Email Address(es): csauer@greatwesteng.com, dbreedlove@greatwesteng.com	

Turn Ar

Please refer to

www.anateklabs.com/pricing-lists

☒ Normal ☐ Phone
☐ Next Day* ☐ Email
☐ 2nd Day* ☐ All rush order requests must
☐ Other* have prior approval

				List Analyses Requested										Note Special Instructions/Comments			
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative: # of Containers	Sample Volume	NH3, Cl, TDS	Nitrate + Nitrite	Total Metals Ba, Mn, Se, Ti	Turbidity								
1	051222 P12	5/12/22 0725	w	23		X	X	X	X								ms/msd @ PW @ 0950
2	051222 P13	5/12/22 0755	w	23		X	X	X	X								
3	051222 SA10	5/12/22 0905	w	23		X	X	X	X								
4	051222 SA11	5/12/22 0845	w	23		X	X	X	X								
5	051222 SA14	5/12/22 0835	w	23		X	X	X	X								
6	051222 P09	5/12/22 0940	w	23		X	X	X	X								
7	051222 PW	5/12/22 0950	w	23		X	X	X	X								
8	051222 P05	5/12/22 1115	w	23		X	X	X	X								
9	051222 P06	5/12/22 1135	w	21		X	X	X	X								
10	051222 P19	5/12/22 1050	w	23		X	X	X	X								
11	051222 P20B	5/12/22 1020	w	23		X	X	X	X								
12	051222 P25	5/12/22 0820	w	23		X	X	X	X								
13	051222 P27	5/12/22 1205	w	23		X	X	X	X								
14	051222 FD3	5/12/22 0600	w	23		X	X	X	X								

Inspection Checklist			
Received Intact?	Y	N	
Labels & Chains Agree?	Y	N	
Containers Sealed?	Y	N	
No VOC Head Space?	Y	N	
Cooler?	Y	N	
Ice/Ice Packs Present?	Y	N	
Temperature (°C):	8.4° IR-2		

Printed Name	Signature	Company	Date	Time
Relinquished by Duncan Breedlove	Duncan Breedlove	Great West	5/12/22	1415
Received by KS6/H	KS6/H	Anatek	5/12/22	1415
Relinquished by				
Received by				
Relinquished by				
Received by				

Number of Containers: 45
Shipped Via: Ice
Preservative: H2SO4 2103226
Date & Time: 5/12/22
Inspected By: KS6/H

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Form COC01.02 - Eff 1 Mar 2021

Page 1 of 1



Anatek Labs, Inc.

Sample Receipt and Preservation Form

WCE0483



Due: 05/27/22

Client Name: Great West Eng. Project: NWA L-Bar (apply Anatek sample label note, Q2)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 8.4 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-2

Comments:

Samples Received Intact? Yes No N/A

Chain of Custody Present? Yes No N/A

Samples Received Within Hold Time? Yes No N/A

Samples Properly Preserved? Yes No N/A

VOC Vials Free of Headspace (<6mm)? Yes No N/A

VOC Trip Blanks Present? Yes No N/A

Labels and Chains Agree? Yes No N/A

Total Number of Sample Bottles Received: 45

<u>H2SO4, Ice</u>
<u>40m/v, 250p, 500p</u>

Chain of Custody Fully Completed? Yes No N/A

Correct Containers Received? Yes No N/A

Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

<u>H2SO4 2103226 <2 P2102558</u> <u>Ice</u>

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

--

Received/Inspected By: [Signature] Date/Time: 5-12-22 1442

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WCJ1185
Project: NWA L-Bar Q4
Reported: 3/5/2023 21:21

Analytical Results Report

Sample Location: 102722 P12
Lab/Sample Number: WCJ1185-01 **Collect Date:** 10/27/22 07:40
Date Received: 10/27/22 16:15 **Collected By:** Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	5.55	mg/L	0.100	11/8/22 3:51	BKP	EPA 300.0	
Ammonia/N	ND	mg/L	0.0200	10/31/22 14:46	TLM	SM 4500-NH3 H	
Nitrate/N	1.44	mg/L	0.100	10/28/22 11:51	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:26	TLM	SM 4500-NO3 F	
TDS	718	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.115	NTU	0.100	10/28/22 11:22	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0272	mg/L	0.0100	11/10/22 16:21	JLG	EPA 200.8	
Manganese	0.00234	mg/L	0.00100	3/1/23 19:12	JLG	EPA 200.8	
Selenium	0.00105	mg/L	0.00100	3/1/23 19:12	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 19:12	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P13
Lab/Sample Number: WCJ1185-02 Collect Date: 10/27/22 08:05
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	996	mg/L	10.0	11/8/22 4:13	BKP	EPA 300.0	
Ammonia/N	27.4	mg/L	0.400	10/31/22 15:18	TLM	SM 4500-NH3 H	
Nitrate/N	6.21	mg/L	0.500	10/28/22 12:39	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:28	TLM	SM 4500-NO3 F	
TDS	5010	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.342	NTU	0.100	10/28/22 11:30	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0662	mg/L	0.00100	3/1/23 19:09	JLG	EPA 200.8	
Manganese	2.65	mg/L	0.100	11/10/22 20:15	JLG	EPA 200.8	
Selenium	0.00223	mg/L	0.00100	3/1/23 19:09	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 19:09	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 SA10
Lab/Sample Number: WCJ1185-03 Collect Date: 10/27/22 12:45
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	9110	mg/L	50.0	11/8/22 4:34	BKP	EPA 300.0	
Ammonia/N	626	mg/L	6.00	10/31/22 15:27	TLM	SM 4500-NH3 H	
Nitrate/N	0.960	mg/L	0.100	10/28/22 12:01	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:29	TLM	SM 4500-NO3 F	
TDS	21600	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	14.2	NTU	0.100	10/28/22 11:33	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0402	mg/L	0.00100	3/1/23 19:06	JLG	EPA 200.8	
Manganese	1.78	mg/L	0.100	11/10/22 20:12	JLG	EPA 200.8	
Selenium	0.00301	mg/L	0.00100	3/1/23 19:06	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 19:06	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 SA11
Lab/Sample Number: WCJ1185-04 Collect Date: 10/27/22 12:25
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	7620	mg/L	50.0	11/8/22 4:56	BKP	EPA 300.0	
Ammonia/N	79.6	mg/L	1.20	10/31/22 16:01	TLM	SM 4500-NH3 H	
Nitrate/N	0.784	mg/L	0.100	10/28/22 12:02	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:30	TLM	SM 4500-NO3 F	
TDS	15000	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	1.05	NTU	0.100	10/28/22 11:36	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0425	mg/L	0.00100	3/1/23 19:03	JLG	EPA 200.8	
Manganese	0.418	mg/L	0.100	11/10/22 20:09	JLG	EPA 200.8	
Selenium	0.00589	mg/L	0.00100	3/1/23 19:03	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 19:03	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 SA14
Lab/Sample Number: WCJ1185-05 Collect Date: 10/27/22 12:15
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	584	mg/L	10.0	11/8/22 21:02	BKP	EPA 300.0	
Ammonia/N	13.0	mg/L	0.400	10/31/22 15:30	TLM	SM 4500-NH3 H	
Nitrate/N	0.132	mg/L	0.100	10/28/22 12:04	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:31	TLM	SM 4500-NO3 F	
TDS	2940	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.227	NTU	0.100	10/28/22 11:44	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0124	mg/L	0.00100	3/1/23 19:00	JLG	EPA 200.8	
Manganese	0.00463	mg/L	0.00100	3/1/23 19:00	JLG	EPA 200.8	
Selenium	0.00962	mg/L	0.00100	3/1/23 19:00	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 19:00	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P09
Lab/Sample Number: WCJ1185-06 Collect Date: 10/27/22 13:15
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	495	mg/L	10.0	11/8/22 6:22	BKP	EPA 300.0	
Ammonia/N	0.350	mg/L	0.0200	10/31/22 14:52	TLM	SM 4500-NH3 H	
Nitrate/N	0.148	mg/L	0.100	10/28/22 12:05	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:32	TLM	SM 4500-NO3 F	
TDS	1120	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.251	NTU	0.100	10/28/22 11:50	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.135	mg/L	0.00100	3/1/23 18:56	JLG	EPA 200.8	
Manganese	0.121	mg/L	0.00100	3/1/23 18:56	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	3/1/23 18:56	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:56	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 PW
Lab/Sample Number: WCJ1185-07 Collect Date: 10/27/22 13:30
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	0.799	mg/L	0.100	11/8/22 7:26	BKP	EPA 300.0	
Ammonia/N	ND	mg/L	0.0200	10/31/22 14:53	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:06	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:06	TLM	SM 4500-NO3 F	
TDS	231	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	1.47	NTU	0.100	10/28/22 11:52	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0692	mg/L	0.00100	3/1/23 18:47	JLG	EPA 200.8	
Manganese	0.00330	mg/L	0.00100	3/1/23 18:47	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	3/1/23 18:47	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:47	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P05
Lab/Sample Number: WCJ1185-08 Collect Date: 10/27/22 11:00
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	1890	mg/L	10.0	11/8/22 7:48	BKP	EPA 300.0	
Ammonia/N	ND	mg/L	0.0200	10/31/22 14:54	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:07	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:07	TLM	SM 4500-NO3 F	
TDS	3190	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.147	NTU	0.100	10/28/22 11:57	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.597	mg/L	0.100	11/10/22 19:46	JLG	EPA 200.8	
Manganese	0.216	mg/L	0.100	11/10/22 19:46	JLG	EPA 200.8	
Selenium	0.00116	mg/L	0.00100	3/1/23 18:44	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:44	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P06
Lab/Sample Number: WCJ1185-09 Collect Date: 10/27/22 11:30
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	48.2	mg/L	1.00	11/8/22 8:09	BKP	EPA 300.0	
Ammonia/N	0.290	mg/L	0.0200	10/31/22 14:59	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:08	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:08	TLM	SM 4500-NO3 F	
TDS	475	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	68.7	NTU	0.300	10/28/22 12:10	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.154	mg/L	0.100	11/10/22 19:43	JLG	EPA 200.8	
Manganese	1.12	mg/L	0.100	11/10/22 19:43	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	3/1/23 18:41	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:41	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P19
Lab/Sample Number: WCJ1185-10 Collect Date: 10/27/22 09:50
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	3450	mg/L	20.0	11/8/22 8:30	BKP	EPA 300.0	
Ammonia/N	0.357	mg/L	0.0200	10/31/22 15:00	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:10	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:10	TLM	SM 4500-NO3 F	
TDS	6780	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.660	NTU	0.100	10/28/22 12:15	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0580	mg/L	0.00100	3/1/23 18:37	JLG	EPA 200.8	
Manganese	1.60	mg/L	0.100	11/10/22 19:41	JLG	EPA 200.8	
Selenium	0.00211	mg/L	0.00100	3/1/23 18:37	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:37	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P20B
Lab/Sample Number: WCJ1185-11 Collect Date: 10/27/22 09:10
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	1370	mg/L	5.00	11/8/22 21:23	BKP	EPA 300.0	
Ammonia/N	10.3	mg/L	0.400	10/31/22 15:33	TLM	SM 4500-NH3 H	
Nitrate/N	12.8	mg/L	2.00	10/28/22 12:51	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 15:34	TLM	SM 4500-NO3 F	
TDS	3640	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.334	NTU	0.100	10/28/22 12:28	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0638	mg/L	0.00100	3/1/23 18:21	JLG	EPA 200.8	
Manganese	0.832	mg/L	0.100	11/10/22 19:38	JLG	EPA 200.8	
Selenium	0.00288	mg/L	0.00100	3/1/23 18:21	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:21	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P25
Lab/Sample Number: WCJ1185-12 Collect Date: 10/27/22 08:40
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	849	mg/L	10.0	11/8/22 9:13	BKP	EPA 300.0	
Ammonia/N	0.525	mg/L	0.0200	10/31/22 15:03	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:12	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:12	TLM	SM 4500-NO3 F	
TDS	2220	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	135	NTU	0.600	10/28/22 12:33	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0604	mg/L	0.00100	3/1/23 18:18	JLG	EPA 200.8	
Manganese	8.02	mg/L	0.100	11/10/22 19:35	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	3/1/23 18:18	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:18	JLG	EPA 200.8	

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Analytical Results Report

(Continued)

Sample Location: 102722 P27
Lab/Sample Number: WCJ1185-13 Collect Date: 10/27/22 11:55
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	6380	mg/L	100	11/8/22 9:35	BKP	EPA 300.0	
Ammonia/N	ND	mg/L	0.0200	10/31/22 15:04	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:16	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:16	TLM	SM 4500-NO3 F	
TDS	9040	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	0.643	NTU	0.100	10/28/22 12:39	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	1.45	mg/L	0.100	11/10/22 19:32	JLG	EPA 200.8	
Manganese	0.112	mg/L	0.100	11/10/22 19:32	JLG	EPA 200.8	
Selenium	0.00268	mg/L	0.00100	3/1/23 18:15	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:15	JLG	EPA 200.8	

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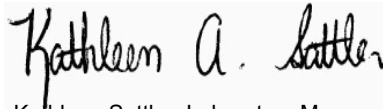
Analytical Results Report

(Continued)

Sample Location: 102722 FD3
Lab/Sample Number: WCJ1185-14 Collect Date: 10/27/22 06:00
Date Received: 10/27/22 16:15 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Chloride	0.800	mg/L	0.100	11/8/22 9:56	BKP	EPA 300.0	
Ammonia/N	ND	mg/L	0.0200	10/31/22 15:05	TLM	SM 4500-NH3 H	
Nitrate/N	ND	mg/L	0.100	10/28/22 12:17	TLM	SM 4500-NO3 F	
Nitrite/N	ND	mg/L	0.100	10/28/22 12:17	TLM	SM 4500-NO3 F	
TDS	337	mg/L	5.00	10/28/22 15:04	EMG	SM 2540 C	
Turbidity	1.38	NTU	0.100	10/28/22 12:41	ILG	EPA 180.1	
Metals by ICP-MS							
Barium	0.0714	mg/L	0.00100	3/1/23 18:12	JLG	EPA 200.8	
Manganese	0.00335	mg/L	0.00100	3/1/23 18:12	JLG	EPA 200.8	
Selenium	ND	mg/L	0.00100	3/1/23 18:12	JLG	EPA 200.8	
Thallium	ND	mg/L	0.00100	3/1/23 18:12	JLG	EPA 200.8	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ1033 - W Wet Chem										
Blank (BCJ1033-BLK1)					Prepared & Analyzed: 10/28/2022					
TDS	ND		5.00	mg/L						
Blank (BCJ1033-BLK2)					Prepared & Analyzed: 10/28/2022					
TDS	ND		5.00	mg/L						
Blank (BCJ1033-BLK3)					Prepared & Analyzed: 10/28/2022					
TDS	ND		5.00	mg/L						
Blank (BCJ1033-BLK4)					Prepared & Analyzed: 10/28/2022					
TDS	ND		5.00	mg/L						
Blank (BCJ1033-BLK5)					Prepared & Analyzed: 10/28/2022					
TDS	ND		5.00	mg/L						
LCS (BCJ1033-BS1)					Prepared & Analyzed: 10/28/2022					
TDS	489			mg/L	500		97.8	80-120		
LCS (BCJ1033-BS2)					Prepared & Analyzed: 10/28/2022					
TDS	486			mg/L	500		97.2	80-120		
LCS (BCJ1033-BS3)					Prepared & Analyzed: 10/28/2022					
TDS	482			mg/L	500		96.4	80-120		
LCS Dup (BCJ1033-BSD1)					Prepared & Analyzed: 10/28/2022					
TDS	460			mg/L	500		92.0	80-120	6.11	20
LCS Dup (BCJ1033-BSD2)					Prepared & Analyzed: 10/28/2022					
TDS	459			mg/L	500		91.8	80-120	5.71	20

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ1033 - W Wet Chem (Continued)										
LCS Dup (BCJ1033-BSD3)					Prepared & Analyzed: 10/28/2022					
TDS	450			mg/L	500		90.0	80-120	6.87	20
Duplicate (BCJ1033-DUP1)					Source: WCJ1044-01 Prepared & Analyzed: 10/28/2022					
TDS	654		5.00	mg/L		639			2.32	20
Duplicate (BCJ1033-DUP2)					Source: WCJ1047-01 Prepared & Analyzed: 10/28/2022					
TDS	952		5.00	mg/L		920			3.42	20
Duplicate (BCJ1033-DUP3)					Source: WCJ1047-02 Prepared & Analyzed: 10/28/2022					
TDS	956		5.00	mg/L		925			3.30	20
Matrix Spike (BCJ1033-MS2)					Source: WCJ1085-05 Prepared & Analyzed: 10/28/2022					
TDS	1020		5.00	mg/L	500	464	111	80-120		
Matrix Spike Dup (BCJ1033-MSD2)					Source: WCJ1085-05 Prepared & Analyzed: 10/28/2022					
TDS	946		5.00	mg/L	500	464	96.4	80-120	7.53	20
Batch: BCJ1060 - W Wet Chem										
Blank (BCJ1060-BLK1)					Prepared & Analyzed: 10/28/2022					
Turbidity	ND		0.100	NTU						
Duplicate (BCJ1060-DUP1)					Source: WCJ1185-03 Prepared & Analyzed: 10/28/2022					
Turbidity	15.3		0.100	NTU		14.2			7.46	200
Batch: BCK0009 - W FIA										
Blank (BCK0009-BLK1)					Prepared & Analyzed: 10/31/2022					
Ammonia/N	ND		0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0009 - W FIA (Continued)										
Blank (BCK0009-BLK2)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK3)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK4)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK5)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK6)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK7)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK8)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLK9)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
Blank (BCK0009-BLKA)										
Ammonia/N	ND		0.0200	mg/L						Prepared & Analyzed: 10/31/2022
LCS (BCK0009-BS1)										
Ammonia/N	0.186		0.0200	mg/L	0.200		93.1	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0009 - W FIA (Continued)										
LCS (BCK0009-BS2)					Prepared & Analyzed: 10/31/2022					
Ammonia/N	0.204		0.0200	mg/L	0.200		102	90-110		
LCS (BCK0009-BS3)					Prepared & Analyzed: 10/31/2022					
Ammonia/N	0.207		0.0200	mg/L	0.200		103	90-110		
LCS (BCK0009-BS4)					Prepared & Analyzed: 10/31/2022					
Ammonia/N	0.207		0.0200	mg/L	0.200		104	90-110		
LCS (BCK0009-BS5)					Prepared & Analyzed: 10/31/2022					
Ammonia/N	0.209		0.0200	mg/L	0.200		105	90-110		
Matrix Spike (BCK0009-MS1)					Source: WCJ1207-01		Prepared & Analyzed: 10/31/2022			
Ammonia/N	0.205		0.0200	mg/L	0.200	0.0100	97.6	80-120		
Matrix Spike (BCK0009-MS2)					Source: WCJ1047-07		Prepared & Analyzed: 10/31/2022			
Ammonia/N	0.196		0.0200	mg/L	0.200	ND	98.1	80-120		
Matrix Spike Dup (BCK0009-MSD1)					Source: WCJ1207-01		Prepared & Analyzed: 10/31/2022			
Ammonia/N	0.199		0.0200	mg/L	0.200	0.0100	94.6	80-120	2.97	20
Matrix Spike Dup (BCK0009-MSD2)					Source: WCJ1047-07		Prepared & Analyzed: 10/31/2022			
Ammonia/N	0.181		0.0200	mg/L	0.200	ND	90.5	80-120	8.06	20
Batch: BCK0018 - W FIA										
Blank (BCK0018-BLK1)					Prepared & Analyzed: 10/20/2022					
Nitrate-N	ND		0.100	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0018 - W FIA (Continued)										
Blank (BCK0018-BLK2)										
Nitrate-N	ND		0.100	mg/L						
Prepared & Analyzed: 10/20/2022										
LCS (BCK0018-BS1)										
Nitrate-N	0.407		0.100	mg/L	0.400		102	90-110		
Prepared & Analyzed: 10/20/2022										
LCS Dup (BCK0018-BSD1)										
Nitrate-N	0.419		0.100	mg/L	0.400		105	90-110	2.86	20
Prepared & Analyzed: 10/28/2022										
Batch: BCK0020 - W FIA										
Blank (BCK0020-BLK1)										
Nitrite-N	ND		0.100	mg/L						
Prepared & Analyzed: 10/28/2022										
LCS (BCK0020-BS1)										
Nitrite-N	0.211		0.100	mg/L	0.200		105	90-110		
Prepared & Analyzed: 10/28/2022										
LCS Dup (BCK0020-BSD1)										
Nitrite-N	0.201		0.100	mg/L	0.200		100	90-110	4.81	20
Prepared & Analyzed: 10/28/2022										
Batch: BCK0204 - Anions										
Blank (BCK0204-BLK1)										
Chloride	ND		0.100	mg/L						
Prepared & Analyzed: 11/7/2022										
Blank (BCK0204-BLK2)										
Chloride	ND		0.100	mg/L						
Prepared & Analyzed: 11/8/2022										

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0204 - Anions (Continued)										
LCS (BCK0204-BS1)										
Chloride	3.98		0.100	mg/L	4.00		99.5	90-110		
Prepared & Analyzed: 11/7/2022										
LCS (BCK0204-BS2)										
Chloride	3.91		0.100	mg/L	4.00		97.9	90-110		
Prepared & Analyzed: 11/8/2022										
Matrix Spike (BCK0204-MS1)										
Chloride	118		1.00	mg/L	40.0	77.4	103	90-110		
Source: WCJ1164-01RE1 Prepared & Analyzed: 11/7/2022										
Matrix Spike (BCK0204-MS2)										
Chloride	148		1.00	mg/L	40.0	108	102	90-110		
Source: WCJ0991-02 Prepared & Analyzed: 11/8/2022										
Matrix Spike (BCK0204-MS3)										
Chloride	930		10.0	mg/L	400	495	109	90-110		
Source: WCJ1185-06 Prepared & Analyzed: 11/8/2022										
Matrix Spike (BCK0204-MS4)										
Chloride	86.1		1.00	mg/L	40.0	44.4	104	90-110		
Source: WCK0109-03 Prepared & Analyzed: 11/8/2022										
Matrix Spike (BCK0204-MS5)										
Chloride	81.0		1.00	mg/L	40.0	37.6	108	90-110		
Source: MCK0241-01RE1 Prepared & Analyzed: 11/10/2022										
Matrix Spike Dup (BCK0204-MSD1)										
Chloride	115		1.00	mg/L	40.0	77.4	95.1	90-110	2.60	20
Source: WCJ1164-01RE1 Prepared & Analyzed: 11/7/2022										
Matrix Spike Dup (BCK0204-MSD2)										
Chloride	149		1.00	mg/L	40.0	108	103	90-110	0.289	20
Source: WCJ0991-02 Prepared & Analyzed: 11/8/2022										
Matrix Spike Dup (BCK0204-MSD4)										
Chloride	86.5		1.00	mg/L	40.0	44.4	105	90-110	0.406	20
Source: WCK0109-03 Prepared & Analyzed: 11/8/2022										

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCK0204 - Anions (Continued)										
Matrix Spike Dup (BCK0204-MSD5)			Source: MCK0241-01RE1			Prepared & Analyzed: 11/10/2022				
Chloride	81.2		1.00	mg/L	40.0	37.6	109	90-110	0.321	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ1076 - W 3010 Digest										
Blank (BCJ1076-BLK1)			Prepared: 10/31/2022 Analyzed: 11/10/2022							
Manganese	ND		0.00100	mg/L						
Thallium	ND		0.00100	mg/L						
Selenium	ND		0.00100	mg/L						
Barium	ND		0.00100	mg/L						
LCS (BCJ1076-BS1)			Prepared: 10/31/2022 Analyzed: 11/10/2022							
Thallium	0.0518		0.00100	mg/L	0.0500		104	85-115		
Selenium	0.0518		0.00100	mg/L	0.0500		104	85-115		
Manganese	0.0512		0.00100	mg/L	0.0500		102	85-115		
Barium	0.0507		0.00100	mg/L	0.0500		101	85-115		
LCS (BCJ1076-BS2)			Prepared: 10/31/2022 Analyzed: 3/1/2023							
Selenium	0.0473		0.00100	mg/L				85-115		
Barium	0.0485		0.00100	mg/L				85-115		
Thallium	0.0483		0.00100	mg/L				85-115		
Manganese	0.0458		0.00100	mg/L				85-115		
Matrix Spike (BCJ1076-MS1)			Source: WCJ1185-01			Prepared: 10/31/2022 Analyzed: 11/10/2022				
Manganese	0.0474		0.0100	mg/L	0.0500	ND	94.7	70-130		
Selenium	0.0556		0.0100	mg/L	0.0500	ND	111	70-130		
Thallium	0.0556		0.0100	mg/L	0.0500	ND	111	70-130		
Barium	0.0829		0.0100	mg/L	0.0500	0.0272	111	70-130		
Matrix Spike (BCJ1076-MS2)			Source: WCJ1185-07			Prepared: 10/31/2022 Analyzed: 11/10/2022				
Thallium	0.0583		0.0100	mg/L	0.0500	ND	117	70-130		
Selenium	0.0592		0.0100	mg/L	0.0500	ND	118	70-130		
Matrix Spike Dup (BCJ1076-MSD1)			Source: WCJ1185-01			Prepared: 10/31/2022 Analyzed: 11/10/2022				
Manganese	0.0494		0.0100	mg/L	0.0500	ND	98.8	70-130	4.18	20
Selenium	0.0584		0.0100	mg/L	0.0500	ND	117	70-130	4.91	20
Barium	0.0867		0.0100	mg/L	0.0500	0.0272	119	70-130	4.45	20
Thallium	0.0548		0.0100	mg/L	0.0500	ND	110	70-130	1.36	20

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BCJ1076 - W 3010 Digest (Continued)

Matrix Spike Dup (BCJ1076-MSD2)

Source: WCJ1185-07

Prepared: 10/31/2022 Analyzed: 11/10/2022

Thallium	0.0535		0.0100	mg/L	0.0500	ND	107	70-130	8.53	20
Selenium	0.0589		0.0100	mg/L	0.0500	ND	118	70-130	0.356	20



Chain of Custody Record

Anatek
1282 Alturas Drive, Mo
504 E Sprague Ste D, Spo

WCJ1185



Due: 11/11/22

Company Name: Great West Engineering	Project Manager: Craig Sauer
Address: 9221 N Division St	Project Name & #: NWA L-Bar Q4
City: Spokane State: WA Zip: 99021	Purchase Order #: Alcoa
Phone: 509-994-9938	Sampler Name & Phone: Duncan Breedlove 916-969-4834
Email Address(es): csauer@greatwesteng.com, dbreedlove@greatwesteng.com	

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☐ 2nd Day*
☐ Other* ☐ *All rush order requests must have prior approval

				List Analyses Requested										Note Special Instructions/Comments			
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	NH ₃ , Cl, TDS	Nitrate + Nitrite	Total Metals Ba, Mn, Se, Ti	Turbidity								
1	102722 P12	10/27 740	w	2		X	X	X	X								
2	102722 P13	10/27 805	w	2		X	X	X	X								
3	102722 SA10	10/27 1245	w	2		X	X	X	X								
4	102722 SA11	10/27 1225	w	2		X	X	X	X								
5	102722 SA14	10/27 1215	w	2		X	X	X	X								
6	102722 P09	10/27 1315	w	2		X	X	X	X								
7	102722 PW	10/27 1330	w	2		X	X	X	X								
8	102722 P05	10/27 1100	w	2		X	X	X	X								
9	102722 P06	10/27 1130	w	2		X	X	X	X								
10	102722 P19	10/27 950	w	2		X	X	X	X								
11	102722 P20B	10/27 910	w	2		X	X	X	X								
12	102722 P25	10/27 840	w	2		X	X	X	X								
13	102722 P27	10/27 1155	w	2		X	X	X	X								
	102722 FD3	10/27 600	w	2		X	X	X	X								

Printed Name	Signature	Company	Date	Time
Relinquished by Duncan Breedlove		Great West	10/27	16:17
Received by Brock Grey		Anatek	10-27-22	1615
Relinquished by				
Received by				
Relinquished by				
Received by				

Number of Containers:	Shipped Via:	Preservative:	Date & Time:	Inspected By:
	410/6/1	102722 220726902		
		pl 402879		

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.
Form COC01.02 - Eff 1 Mar 2021



Chain of Custody Record

Anatek
1282 Alturas Drive, Mo
504 E Sprague Ste D, Spo

WCJ1185



Due: 11/11/22

Company Name: Great West Engineering	Project Manager: Craig Sauer
Address: 9221 N Division St	Project Name & #: NWA L-Bar Q4
City: Spokane State: WA Zip: 99021	Purchase Order #: Alcoa
Phone: 509-994-9938	Sampler Name & Phone: Duncan Breedlove 916-969-4834
Email Address(es): csauer@greatwesteng.com, dbreedlove@greatwesteng.com	

Turn

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☒ Normal ☐ Phone
☐ Next Day* ☐ Email
☐ 2nd Day*
☐ Other* *All rush order requests must have prior approval

				List Analyses Requested								Note Special Instructions/Comments							
Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:		NH ₃ , Cl, TDS	Nitrate + Nitrite	Total Metals Ba, Mn, Se, Ti	Turbidity										
				# of Containers	Sample Volume														
1	102722 P12	10/27 740	w	2		X	X	X	X										
2	102722 P13	10/27 805	w	2		X	X	X	X										
3	102722 SA10	10/27 1245	w	2		X	X	X	X										
4	102722 SA11	10/27 1225	w	2		X	X	X	X										
5	102722 SA14	10/27 1215	w	2		X	X	X	X										
6	102722 P09	10/27 1315	w	2		X	X	X	X										
7	102722 PW	10/27 1330	w	2		X	X	X	X										
8	102722 P05	10/27 1100	w	2		X	X	X	X										
9	102722 P06	10/27 1130	w	2		X	X	X	X										
10	102722 P19	10/27 950	w	2		X	X	X	X										
11	102722 P20B	10/27 910	w	2		X	X	X	X										
12	102722 P25	10/27 840	w	2		X	X	X	X										
13	102722 P27	10/27 1155	w	2		X	X	X	X										
	102722 FD3	10/27 600	w	2		X	X	X	X										

Printed Name		Signature		Company		Date	Time
Relinquished by	Duncan Breedlove			Great West		10/27	16:17
Received by	Duncan Breedlove			Anatek		10/27	16:15
Relinquished by							
Received by							
Relinquished by							
Received by							

Inspection Checklist	
Received Intact?	☒ N
Labels & Chains Agree?	☒ N
Containers Sealed?	☒ N
No VOC Head Space?	☒ N
Cooler?	☒ N
Ice/Ice Packs Present?	☒ N
Temperature (°C):	8.8°F R2

Number of Containers:	
Shipped Via: 410/6/1	
Preservative: 187509 220726902	
Date & Time: 10/27/22	
Inspected By: [Signature]	

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Client: Great West Engineering, Inc.
Address: 9221 N. Division St., Suite F
Spokane, WA 99218
Attn: Craig Sauer

Work Order: WDE0704
Project: NWA L-Bar Q2
Reported: 6/28/2023 16:40

Analytical Results Report

Sample Location: 051123 P12
Lab/Sample Number: WDE0704-01 **Collect Date:** 05/11/23 08:00
Date Received: 05/12/23 09:18 **Collected By:** Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.0200	mg/L	0.0200	5/12/23 17:11	AAI	SM 4500-NH3 H	
Chloride	5.76	mg/L	0.150	5/27/23 10:12	ELS	EPA 300.0	
TDS	690	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	0.374	NTU	0.100	5/12/23 17:49	ILG	EPA 180.1	

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Sample Location: 051123 P13
Lab/Sample Number: WDE0704-02 Collect Date: 05/11/23 08:30
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	16.7	mg/L	0.200	5/12/23 18:14	AAI	SM 4500-NH3 H	
Chloride	611	mg/L	7.50	5/27/23 10:32	ELS	EPA 300.0	
TDS	2500	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	1.37	NTU	0.100	5/12/23 17:51	ILG	EPA 180.1	

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Sample Location: 051123 SA10
Lab/Sample Number: WDE0704-03 Collect Date: 05/11/23 13:05
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	505	mg/L	8.00	5/12/23 17:58	AAI	SM 4500-NH3 H	
Chloride	12200	mg/L	75.0	6/2/23 4:36	ELS	EPA 300.0	
TDS	14200	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	2.74	NTU	0.100	5/12/23 17:52	ILG	EPA 180.1	

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Sample Location: 051123 SA11
Lab/Sample Number: WDE0704-04 Collect Date: 05/11/23 12:55
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	92.8	mg/L	4.00	5/12/23 17:42	AAI	SM 4500-NH3 H	
Chloride	11200	mg/L	75.0	6/2/23 4:56	ELS	EPA 300.0	
TDS	15700	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	2.03	NTU	0.100	5/12/23 17:53	ILG	EPA 180.1	

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Sample Location: 051123 SA14
Lab/Sample Number: WDE0704-05 Collect Date: 05/11/23 12:40
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	18.8	mg/L	0.200	5/12/23 18:15	AAI	SM 4500-NH3 H	
Chloride	765	mg/L	7.50	5/27/23 12:10	ELS	EPA 300.0	
TDS	3000	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	0.584	NTU	0.100	5/12/23 17:55	ILG	EPA 180.1	

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Sample Location: 051123 P09
Lab/Sample Number: WDE0704-06 Collect Date: 05/11/23 12:05
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	11.1	mg/L	4.00	5/12/23 17:48	AAI	SM 4500-NH3 H	
Chloride	809	mg/L	7.50	5/27/23 12:30	ELS	EPA 300.0	
TDS	1640	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	16.6	NTU	0.100	5/12/23 17:58	ILG	EPA 180.1	

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Sample Location: 051123 PW
Lab/Sample Number: WDE0704-07 Collect Date: 05/11/23 12:15
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.0200	mg/L	0.0200	5/12/23 18:01	AAI	SM 4500-NH3 H	
Chloride	0.895	mg/L	0.150	5/27/23 12:49	ELS	EPA 300.0	
TDS	265	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	0.811	NTU	0.100	5/12/23 18:00	ILG	EPA 180.1	

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Sample Location: 051123 P05
Lab/Sample Number: WDE0704-08 Collect Date: 05/11/23 10:05
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.567	mg/L	0.0200	5/12/23 18:03	AAI	SM 4500-NH3 H	
Chloride	1220	mg/L	7.50	5/27/23 14:29	ELS	EPA 300.0	
TDS	2270	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	0.924	NTU	0.100	5/12/23 18:01	ILG	EPA 180.1	

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Sample Location: 051123 P06
Lab/Sample Number: WDE0704-09 Collect Date: 05/11/23 10:25
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.684	mg/L	0.0200	5/22/23 11:13	AAI	SM 4500-NH3 H	
Chloride	86.0	mg/L	1.50	5/27/23 15:28	ELS	EPA 300.0	
TDS	591	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	120	NTU	0.300	5/12/23 18:04	ILG	EPA 180.1	

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Sample Location: 051123 P19
Lab/Sample Number: WDE0704-10 Collect Date: 05/11/23 09:35
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.202	mg/L	0.0200	5/12/23 18:07	AAI	SM 4500-NH3 H	
Chloride	9840	mg/L	75.0	6/2/23 5:16	ELS	EPA 300.0	
TDS	11100	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	3.55	NTU	0.100	5/12/23 18:05	ILG	EPA 180.1	

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Sample Location: 051123 P20B
Lab/Sample Number: WDE0704-11 Collect Date: 05/11/23 09:10
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	8.69	mg/L	0.200	5/12/23 18:17	AAI	SM 4500-NH3 H	
Chloride	1130	mg/L	7.50	5/27/23 16:07	ELS	EPA 300.0	
TDS	2550	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	1.16	NTU	0.100	5/12/23 18:07	ILG	EPA 180.1	

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Sample Location: 051123 P25
Lab/Sample Number: WDE0704-12 Collect Date: 05/11/23 11:20
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.798	mg/L	0.0200	5/12/23 18:10	AAI	SM 4500-NH3 H	
Chloride	726	mg/L	7.50	5/27/23 16:26	ELS	EPA 300.0	
TDS	1900	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	116	NTU	0.300	5/12/23 18:09	ILG	EPA 180.1	

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Sample Location: 051123 P27
Lab/Sample Number: WDE0704-13 Collect Date: 05/11/23 10:45
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.0200	mg/L	0.0200	5/12/23 18:11	AAI	SM 4500-NH3 H	
Chloride	8680	mg/L	75.0	6/2/23 5:35	ELS	EPA 300.0	
TDS	1010	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	6.13	NTU	0.100	5/12/23 18:10	ILG	EPA 180.1	

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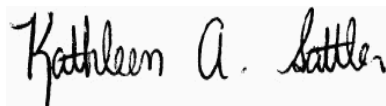
Sample Location: 051123 FD3
Lab/Sample Number: WDE0704-14 Collect Date: 05/11/23 07:00
Date Received: 05/12/23 09:18 Collected By: Duncan Breedlove
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	<0.0200	mg/L	0.0200	5/12/23 18:13	AAI	SM 4500-NH3 H	
Chloride	1.02	mg/L	0.150	5/27/23 17:06	ELS	EPA 300.0	
TDS	251	mg/L		5/16/23 9:09	EMG	SM 2540 C	
Turbidity	0.656	NTU	0.100	5/12/23 18:11	ILG	EPA 180.1	

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Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

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The results reported related only to the samples indicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0576 - W FIA										
Blank (BDE0576-BLK1)					Prepared & Analyzed: 5/12/2023					
Ammonia/N	ND		0.0200	mg/L						
Blank (BDE0576-BLK2)					Prepared & Analyzed: 5/12/2023					
Ammonia/N	ND		0.0200	mg/L						
LCS (BDE0576-BS1)					Prepared & Analyzed: 5/12/2023					
Ammonia/N	0.210		0.0200	mg/L	0.200		105	90-110		
Matrix Spike (BDE0576-MS1)					Prepared & Analyzed: 5/12/2023					
Ammonia/N	0.378		0.0200	mg/L	0.200	0.184	97.2	80-120		
Matrix Spike Dup (BDE0576-MSD1)					Prepared & Analyzed: 5/12/2023					
Ammonia/N	0.371		0.0200	mg/L	0.200	0.184	93.4	80-120	2.03	20
Batch: BDE0607 - W Wet Chem										
Blank (BDE0607-BLK2)					Prepared & Analyzed: 5/16/2023					
TDS	<1			mg/L						
Blank (BDE0607-BLK3)					Prepared & Analyzed: 5/16/2023					
TDS	4.00			mg/L						
Blank (BDE0607-BLK4)					Prepared & Analyzed: 5/16/2023					
TDS	<1			mg/L						
LCS (BDE0607-BS1)					Prepared & Analyzed: 5/16/2023					
TDS	472			mg/L	500		94.4	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0607 - W Wet Chem (Continued)										
LCS (BDE0607-BS2)										
TDS	485			mg/L	500		97.0	80-120		
Duplicate (BDE0607-DUP1)										
TDS	645			mg/L		690			6.74	20
Duplicate (BDE0607-DUP2)										
TDS	288			mg/L		272			5.71	20
Batch: BDE0613 - W Wet Chem										
Blank (BDE0613-BLK1)										
Turbidity	ND		0.100	NTU						
Duplicate (BDE0613-DUP1)										
Turbidity	6.16		0.100	NTU		6.13			0.488	200
Batch: BDE0869 - W FIA										
Blank (BDE0869-BLK1)										
Ammonia/N	ND		0.0200	mg/L						
Blank (BDE0869-BLK2)										
Ammonia/N	ND		0.0200	mg/L						
Blank (BDE0869-BLK3)										
Ammonia/N	ND		0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0869 - W FIA (Continued)										
Blank (BDE0869-BLK4)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	ND		0.0200	mg/L						
Blank (BDE0869-BLK5)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	ND		0.0200	mg/L						
Blank (BDE0869-BLK6)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	ND		0.0200	mg/L						
LCS (BDE0869-BS1)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.220		0.0200	mg/L						
LCS (BDE0869-BS2)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.209		0.0200	mg/L						
LCS (BDE0869-BS3)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.210		0.0200	mg/L						
Matrix Spike (BDE0869-MS1)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.291	Source: WDE0897-02	0.0200	mg/L						
Matrix Spike (BDE0869-MS2)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.352	Source: WDE1013-01	0.0200	mg/L						
Matrix Spike (BDE0869-MS3)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.260	Source: WDE0755-01	0.0200	mg/L						
Matrix Spike Dup (BDE0869-MSD1)					Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.294	Source: WDE0897-02	0.0200	mg/L						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0869 - W FIA (Continued)										
Matrix Spike Dup (BDE0869-MSD2)			Source: WDE1013-01		Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.348		0.0200	mg/L	0.200	0.124	112	80-120	1.14	20
Matrix Spike Dup (BDE0869-MSD3)			Source: WDE0755-01		Prepared & Analyzed: 5/22/2023					
Ammonia/N	0.272		0.0200	mg/L	0.200	0.0374	117	80-120	4.47	20
Batch: BDE1186 - W Ions										
Blank (BDE1186-BLK1)					Prepared & Analyzed: 5/27/2023					
Chloride	ND		0.150	mg/L						
Blank (BDE1186-BLK2)					Prepared & Analyzed: 5/27/2023					
Chloride	ND		0.150	mg/L						
LCS (BDE1186-BS1)					Prepared & Analyzed: 5/26/2023					
Chloride	3.93			mg/L	4.00		98.2	90-110		
Matrix Spike (BDE1186-MS1)			Source: WDE0704-07		Prepared & Analyzed: 5/27/2023					
Chloride	4.90		0.150	mg/L	4.00	0.895	100	80-120		
Matrix Spike (BDE1186-MS2)			Source: WDE1478-01		Prepared & Analyzed: 5/27/2023					
Chloride	50.9		0.150	mg/L	4.00	46.6	107	80-120		
Matrix Spike Dup (BDE1186-MSD1)			Source: WDE0704-07		Prepared & Analyzed: 5/27/2023					
Chloride	5.00		0.150	mg/L	4.00	0.895	102	80-120	1.82	20
Matrix Spike Dup (BDE1186-MSD2)			Source: WDE1478-01		Prepared & Analyzed: 5/27/2023					
Chloride	50.9		0.150	mg/L	4.00	46.6	108	80-120	0.0452	20

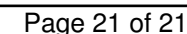
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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDF0101 - W Ions										
Blank (BDF0101-BLK1)					Prepared & Analyzed: 6/1/2023					
Chloride	ND		0.150	mg/L						
LCS (BDF0101-BS1)					Prepared & Analyzed: 6/1/2023					
Chloride	3.82			mg/L	4.00		95.6	90-110		
Matrix Spike (BDF0101-MS1)					Prepared & Analyzed: 6/1/2023					
Chloride	6.67		0.150	mg/L	4.00	2.56	103	80-120		
Matrix Spike Dup (BDF0101-MSD1)					Prepared & Analyzed: 6/1/2023					
Chloride	6.52		0.150	mg/L	4.00	2.56	99.1	80-120	2.33	20



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Client: Northwest Alloys, Inc.
Address: P.O. Box 115
Addy, WA 99101
Attn: Craig Sauer

Work Order: WDK0438
Project: NWA L-Bar Q4
Reported: 12/23/2023 21:24

Analytical Results Report

Sample Location: 110923 P12
Lab/Sample Number: WDK0438-01 **Collect Date:** 11/09/23 08:20
Date Received: 11/09/23 16:25 **Collected By:** Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0477	mg/L	0.0200	11/13/23 14:31	AAI	SM 4500-NH3 H	
Chloride	5.45	mg/L	0.150	11/10/23 21:09	EMG	EPA 300.0	
TDS	719	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	0.900	NTU	0.100	11/10/23 14:21	ILG	EPA 180.1	

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Sample Location: 110923 P13
Lab/Sample Number: WDK0438-02 Collect Date: 11/09/23 08:45
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	27.1	mg/L	2.00	11/13/23 16:52	AAI	SM 4500-NH3 H	
Chloride	810	mg/L	75.0	12/9/23 6:33	EMG	EPA 300.0	C9
TDS	4520	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	2.04	NTU	0.100	11/10/23 14:23	ILG	EPA 180.1	

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Sample Location: 110923 SA10
Lab/Sample Number: WDK0438-03 Collect Date: 11/09/23 09:05
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	435	mg/L	8.00	11/13/23 17:28	AAI	SM 4500-NH3 H	
Chloride	4310	mg/L	75.0	12/9/23 6:53	EMG	EPA 300.0	C9
TDS	14300	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	2.23	NTU	0.100	11/10/23 14:24	ILG	EPA 180.1	

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Sample Location: 110923 SA11
Lab/Sample Number: WDK0438-04 Collect Date: 11/09/23 09:20
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	180	mg/L	2.00	11/13/23 16:55	AAI	SM 4500-NH3 H	
Chloride	8010	mg/L	75.0	12/9/23 7:13	EMG	EPA 300.0	C9
TDS	16700	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	10.9	NTU	0.100	11/10/23 14:25	ILG	EPA 180.1	

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Sample Location: 110923 SA14
Lab/Sample Number: WDK0438-05 Collect Date: 11/09/23 09:30
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	20.1	mg/L	0.400	11/13/23 17:29	AAI	SM 4500-NH3 H	
Chloride	1590	mg/L	15.0	11/13/23 22:02	EMG	EPA 300.0	
TDS	2940	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	0.582	NTU	0.100	11/10/23 14:38	ILG	EPA 180.1	

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Sample Location: 110923 P09
Lab/Sample Number: WDK0438-06 Collect Date: 11/09/23 13:45
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	1.47	mg/L	0.0200	11/13/23 14:38	AAI	SM 4500-NH3 H	
Chloride	907	mg/L	15.0	11/13/23 22:22	EMG	EPA 300.0	
TDS	1910	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	1.96	NTU	0.100	11/10/23 14:40	ILG	EPA 180.1	

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Sample Location: 110923 PW
Lab/Sample Number: WDK0438-07 Collect Date: 11/09/23 13:55
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.712	mg/L	0.0200	11/13/23 14:40	AAI	SM 4500-NH3 H	
Chloride	1.27	mg/L	0.150	11/13/23 12:07	EMG	EPA 300.0	
TDS	331	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	8.88	NTU	0.100	11/10/23 14:43	ILG	EPA 180.1	

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Sample Location: 110923 P05
Lab/Sample Number: WDK0438-08 Collect Date: 11/09/23 12:25
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.202	mg/L	0.0200	11/13/23 14:41	AAI	SM 4500-NH3 H	
Chloride	1580	mg/L	15.0	11/13/23 22:42	EMG	EPA 300.0	
TDS	3330	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	0.887	NTU	0.100	11/10/23 14:45	ILG	EPA 180.1	

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Sample Location: 110923 P06
Lab/Sample Number: WDK0438-09 Collect Date: 11/09/23 12:45
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0448	mg/L	0.0200	11/13/23 14:43	AAI	SM 4500-NH3 H	
Chloride	81.1	mg/L	15.0	11/14/23 0:00	EMG	EPA 300.0	
TDS	514	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	6.08	NTU	0.100	11/10/23 14:46	ILG	EPA 180.1	

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Sample Location: 110923 P19
Lab/Sample Number: WDK0438-10 Collect Date: 11/09/23 11:25
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.156	mg/L	0.0200	11/13/23 14:47	AAI	SM 4500-NH3 H	
Chloride	3270	mg/L	15.0	11/14/23 0:20	EMG	EPA 300.0	
TDS	7520	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	1.90	NTU	0.100	11/10/23 14:48	ILG	EPA 180.1	

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Sample Location: 110923 P20B
Lab/Sample Number: WDK0438-11 Collect Date: 11/09/23 10:50
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	13.4	mg/L	0.200	11/13/23 16:32	AAI	SM 4500-NH3 H	
Chloride	1620	mg/L	15.0	11/14/23 1:00	EMG	EPA 300.0	
TDS	4080	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	1.42	NTU	0.100	11/10/23 14:50	ILG	EPA 180.1	

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Sample Location: 110923 P25
Lab/Sample Number: WDK0438-12 Collect Date: 11/09/23 10:30
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.728	mg/L	0.0200	11/13/23 14:49	AAI	SM 4500-NH3 H	
Chloride	774	mg/L	15.0	11/14/23 1:19	EMG	EPA 300.0	
TDS	2360	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	96.9	NTU	0.300	11/10/23 14:53	ILG	EPA 180.1	

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Sample Location: 110923 P27
Lab/Sample Number: WDK0438-13 Collect Date: 11/09/23 13:00
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.148	mg/L	0.0200	11/13/23 14:51	AAI	SM 4500-NH3 H	
Chloride	4790	mg/L	15.0	11/14/23 1:39	EMG	EPA 300.0	
TDS	8460	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	1.88	NTU	0.100	11/10/23 14:56	ILG	EPA 180.1	

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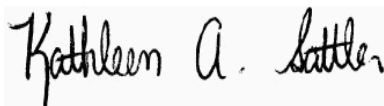
Sample Location: 110923 FD3
Lab/Sample Number: WDK0438-14 Collect Date: 11/09/23 07:00
Date Received: 11/09/23 16:25 Collected By: Duncan Breedlove--Great West
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Ammonia/N	0.0365	mg/L	0.0200	11/13/23 14:52	AAI	SM 4500-NH3 H	
Chloride	0.940	mg/L	0.150	11/13/23 13:07	EMG	EPA 300.0	
TDS	170	mg/L		11/15/23 16:00	EAF	SM 2540 C	
Turbidity	7.01	NTU	0.100	11/10/23 14:57	ILG	EPA 180.1	

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Authorized Signature,



Kathleen Sattler, Laboratory Manager

C9	Initial analysis within holding time. Confirmatory analysis was past holding time. Original result confirmed
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0423 - W FIA										
Blank (BDK0423-BLK1) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK2) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK3) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK4) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK5) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK6) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK7) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK8) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLK9) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLKA) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0423 - W FIA (Continued)										
Blank (BDK0423-BLKB) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLKC) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLKD) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLKE) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
Blank (BDK0423-BLKF) Ammonia/N	ND		0.0200	mg/L	Prepared & Analyzed: 11/13/2023					
LCS (BDK0423-BS1) Ammonia/N	0.212		0.0200	mg/L	0.200		106	90-110		
LCS (BDK0423-BS2) Ammonia/N	0.203		0.0200	mg/L	0.200		101	90-110		
LCS (BDK0423-BS3) Ammonia/N	0.199		0.0200	mg/L	0.200		99.6	90-110		
LCS (BDK0423-BS4) Ammonia/N	0.198		0.0200	mg/L	0.200		98.8	90-110		
LCS (BDK0423-BS5) Ammonia/N	0.193		0.0200	mg/L	0.200		96.3	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0423 - W FIA (Continued)										
LCS (BDK0423-BS6)										
Ammonia/N	0.202		0.0200	mg/L	0.200		101	90-110		
LCS (BDK0423-BS7)										
Ammonia/N	0.203		0.0200	mg/L	0.200		102	90-110		
LCS (BDK0423-BS8)										
Ammonia/N	0.206		0.0200	mg/L	0.200		103	90-110		
Matrix Spike (BDK0423-MS1)										
Ammonia/N	0.180		0.0200	mg/L	0.200	ND	89.8	80-120		
Matrix Spike (BDK0423-MS2)										
Ammonia/N	0.165		0.0200	mg/L	0.200	ND	82.7	80-120		
Matrix Spike (BDK0423-MS3)										
Ammonia/N	0.330		0.0200	mg/L	0.200	0.129	101	80-120		
Matrix Spike (BDK0423-MS4)										
Ammonia/N	0.191		0.0200	mg/L	0.200	ND	95.6	80-120		
Matrix Spike (BDK0423-MS5)										
Ammonia/N	0.216		0.0200	mg/L	0.200	0.0296	93.1	80-120		
Matrix Spike (BDK0423-MS6)										
Ammonia/N	0.185		0.0200	mg/L	0.200	ND	92.6	80-120		
Matrix Spike (BDK0423-MS7)										
Ammonia/N	0.282		0.0200	mg/L	0.200	0.0680	107	80-120		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0423 - W FIA (Continued)										
Matrix Spike (BDK0423-MS8)										
Ammonia/N	0.344		0.0200	mg/L	0.200	0.143	101	80-120		
Matrix Spike Dup (BDK0423-MSD1)										
Ammonia/N	0.186		0.0200	mg/L	0.200	ND	93.2	80-120	3.77	20
Matrix Spike Dup (BDK0423-MSD2)										
Ammonia/N	0.185		0.0200	mg/L	0.200	ND	92.4	80-120	11.0	20
Matrix Spike Dup (BDK0423-MSD3)										
Ammonia/N	0.338		0.0200	mg/L	0.200	0.129	104	80-120	2.10	20
Matrix Spike Dup (BDK0423-MSD4)										
Ammonia/N	0.193		0.0200	mg/L	0.200	ND	96.6	80-120	0.988	20
Matrix Spike Dup (BDK0423-MSD5)										
Ammonia/N	0.221		0.0200	mg/L	0.200	0.0296	95.5	80-120	2.20	20
Matrix Spike Dup (BDK0423-MSD6)										
Ammonia/N	0.198		0.0200	mg/L	0.200	ND	99.2	80-120	6.78	20
Matrix Spike Dup (BDK0423-MSD7)										
Ammonia/N	0.275		0.0200	mg/L	0.200	0.0680	104	80-120	2.37	20
Matrix Spike Dup (BDK0423-MSD8)										
Ammonia/N	0.335		0.0200	mg/L	0.200	0.143	96.0	80-120	2.74	20
Batch: BDK0468 - W Wet Chem										
Blank (BDK0468-BLK1)										
Turbidity	ND		0.100	NTU						

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDK0468 - W Wet Chem (Continued)										
Duplicate (BDK0468-DUP1)		Source: WDK0438-04		Prepared & Analyzed: 11/10/2023						
Turbidity	10.7		0.100	NTU		10.9			1.85	200
Batch: BDK0518 - W Wet Chem										
Blank (BDK0518-BLK1)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	<10			mg/L						
Blank (BDK0518-BLK2)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	<10			mg/L						
Blank (BDK0518-BLK3)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	<10			mg/L						
Blank (BDK0518-BLK4)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	3.00			mg/L						
LCS (BDK0518-BS1)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	573			mg/L	500		115	80-120		
LCS (BDK0518-BS2)		Prepared: 11/14/2023 Analyzed: 11/15/2023								
TDS	582			mg/L	500		116	80-120		
Duplicate (BDK0518-DUP1)		Source: WDK0539-05		Prepared: 11/14/2023 Analyzed: 11/15/2023						
TDS	311			mg/L		343			9.79	20
Duplicate (BDK0518-DUP2)		Source: WDK0438-07		Prepared: 11/14/2023 Analyzed: 12/5/2023						
TDS	326			mg/L		331			1.52	20

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDL0260 - W Ions										
Blank (BDL0260-BLK1)					Prepared & Analyzed: 11/13/2023					
Chloride	ND		0.150	mg/L						
LCS (BDL0260-BS1)					Prepared & Analyzed: 11/13/2023					
Chloride	3.89			mg/L	4.00		97.3	90-110		
Matrix Spike (BDL0260-MS1)					Prepared & Analyzed: 11/10/2023					
Chloride	9.50		0.150	mg/L	4.00	5.45	101	80-120		
Matrix Spike Dup (BDL0260-MSD1)					Prepared & Analyzed: 11/10/2023					
Chloride	9.58		0.150	mg/L	4.00	5.45	103	80-120	0.912	20



Chain of Custody Record

Anatek Lab:
1282 Alturas Drive, Moscow ID
504 E Sprague Ste D, Spokane W

WDK0438



Due: 11/28/23

Company Name: Great West Engineering				Project Manager: Craig Sauer				Turn Arour Please refer to our normal turn around times at www.anateklabs.com/pricing-lists ☒ Normal ☐ Phone ☐ Next Day* ☐ Email ☐ 2nd Day* ☐ ☐ Other* ☐ All rush order requests must have prior approval								
Address: 10220 N. Nevada St., Suite 130				Project Name & #: NWA L-Bar Q2 Q4												
City: Spokane State: WA Zip: 99218				Purchase Order #: Alcoa												
Phone: 509-994-9938				Sampler Name & Phone: Duncan Breedlove 916-969-4834												
Email Address(es): csauer@greatwesteng.com, dbreedlove@greatwesteng.com																
				List Analyses Requested								Note Special Instructions/Comments				
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	NH3, Cl, TDS	Turbidity								
1	110923 P12	11/9 820	w	2			X	X								* FD3 in same bag as PW (#7) because didn't have enough bags. MSMMSD collected @ PW
2	110923 P13	11/9 846	w	2			X	X								
3	110923 SA10	11/9 909	w	2			X	X								
4	110923 SA11	11/9 920	w	2			X	X								
5	110923 SA14	11/9 930	w	2			X	X								
6	110923 P09	11/9 1300	w	2			X	X								
7	110923 PW	11/9 1355	w	2			X	X								
8	110923 P05	11/9 1225	w	2			X	X								
9	110923 P06	11/9 1245	w	2			X	X								
10	110923 P19	11/9 1125	w	2			X	X								
11	110923 P20B	11/9 1050	w	2			X	X								
12	110923 P25	11/9 1030	w	2			X	X								
13	110923 P27	11/9 1300	w	2			X	X								
* 14	110923 FD3	11/9 0700	w	2			X	X								
		Printed Name	Signature	Company	Date	Time										
Relinquished by		Harrison Bashaw	<i>[Signature]</i>	Great West	11/9/23	1626	Number of Containers: _____									
Received by		Kelly Gier	<i>[Signature]</i>	Anatek	11/12/23	1625	Shipped Via: HP									
Relinquished by							Preservative: _____									
Received by							Date & Time: 11/12/23 1625									
Relinquished by							Inspected By: <i>[Signature]</i>									
Received by																

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.
Form COC01.02 - Eff 1 Mar 2021

Page 1 of 1

APPENDIX B

Groundwater Data Quality Review – Relative Percent Difference (2018-2023)

Appendix B. Percent Difference Calculations for Groundwater Sampling 2018 through 2023
2023 L-Bar Site Five Year Review Report

Event Sampled Station Result Type	2018 Spring SA-14			2018 Fall SA-11			2019 Spring SA-14			2019 Fall SA-11			2020 Spring SA-10			2020 Fall SA-10			2021 Spring PW			2021 Fall PW			2022 Spring PW			2022 Fall PW			2023 Spring PW			2023 Fall PW		
	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD	P	FD	PD
Ammonia-N	19.0	19.1	1%	57.4	64.1	11%	18.2	17.3	5%	105	106	1%	662.0	669.0	1%	676.0	797.0	16%	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Chloride	1,130	1,110	2%	4,760	1,890	86%	952	961	1%	5,150	6,270	20%	8,240	6,990	16%	7,590	9,520	23%	0.942	1.070	13%	2.560	0.968	90%	1.100	1.130	3%	0.799	0.800	0%	0.895	1.020	13%	0.712	0.037	180%
Total Dissolved Solids	3,735	3,486	7%	11,800	11,300	4%	3,550	3,440	3%	12,500	14,600	15%	20,700	19,600	5%	16,400	16,800	2%	275	452	49%	254	279	9%	253	284	12%	231	337	37%	265	251	5%	331	170	64%
Nitrate-N	NA	NA	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	0.401	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Nitrite-N	NA	NA	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Barium	0.0162	0.0157	3%	0.0308	0.0339	10%	--	--	--	--	--	--	0.0550	0.0578	5%	0.0513	0.0552	7%	--	--	--	--	--	--	0.00823	0.0750	160%	0.0629	0.0714	13%	NA	NA	--	NA	NA	--
Manganese	0.00563	0.00513	9%	0.201	0.208	3%	--	--	--	--	--	--	4.950	4.890	1%	2.630	3.160	18%	--	--	--	--	--	--	0.00274	0.003	9%	0.0033	0.003	2%	NA	NA	--	NA	NA	--
Selenium	0.0262	0.0254	3%	0.0128	0.0119	7%	--	--	--	--	--	--	NA	0.0139	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Thallium	NA	NA	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	--	--	--	--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
pH	9.86	9.82	0%	8.27	8.41	2%	--	--	--	--	--	--	--	--	--	7.53	7.54	0%	7.49	7.82	4%	7.87	7.88	0%	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	5,630	5,660	1%	19,900	18,300	8%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	--	--	--	--	--	--	--	--	--	--	--	--	12.50	4.20	99%	12.300	10.300	18%	2.180	1.80	19%	67.400	1.510	191%	1.08	1.11	3%	1.47	1.38	6%	0.81	0.66	20%	8.90	7.01	24%

Notes:

P = primary or parent sample; FD = duplicate sample; PD = relative percent difference.

-- = not analyzed/PD not able to be calculated

"NA" Indicates non-detect value at the lab reporting limit (PD calculation not performed).

Units:

pH = standard units

Conductivity = μ mhos/cm

Turbidity = NTU

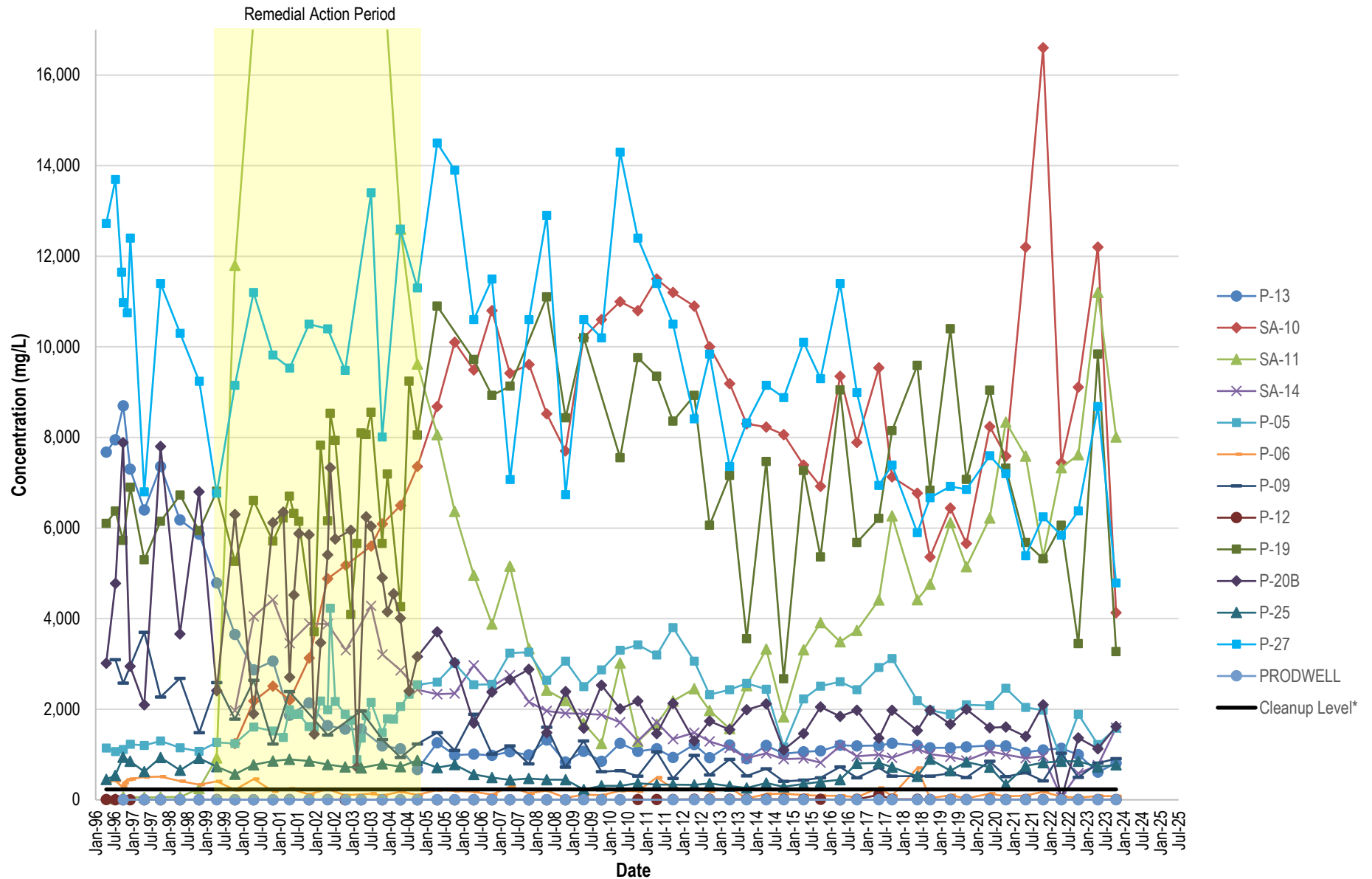
All others = mg/L

Talley:

Total of 59 RPD calculations; 11 results exceeded 20 percent. Exceedences are bolded.

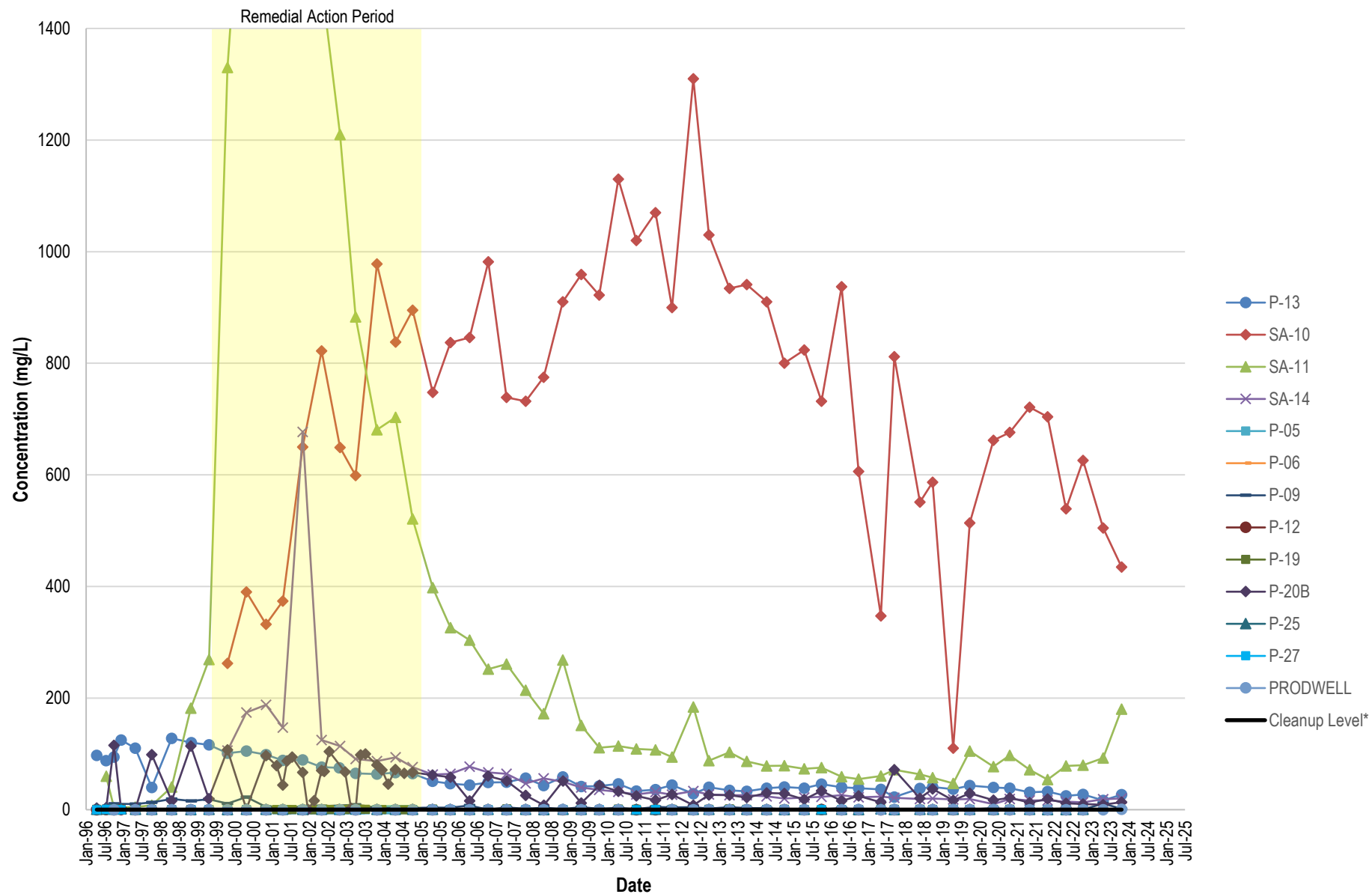
APPENDIX C

Groundwater Time Series Plots



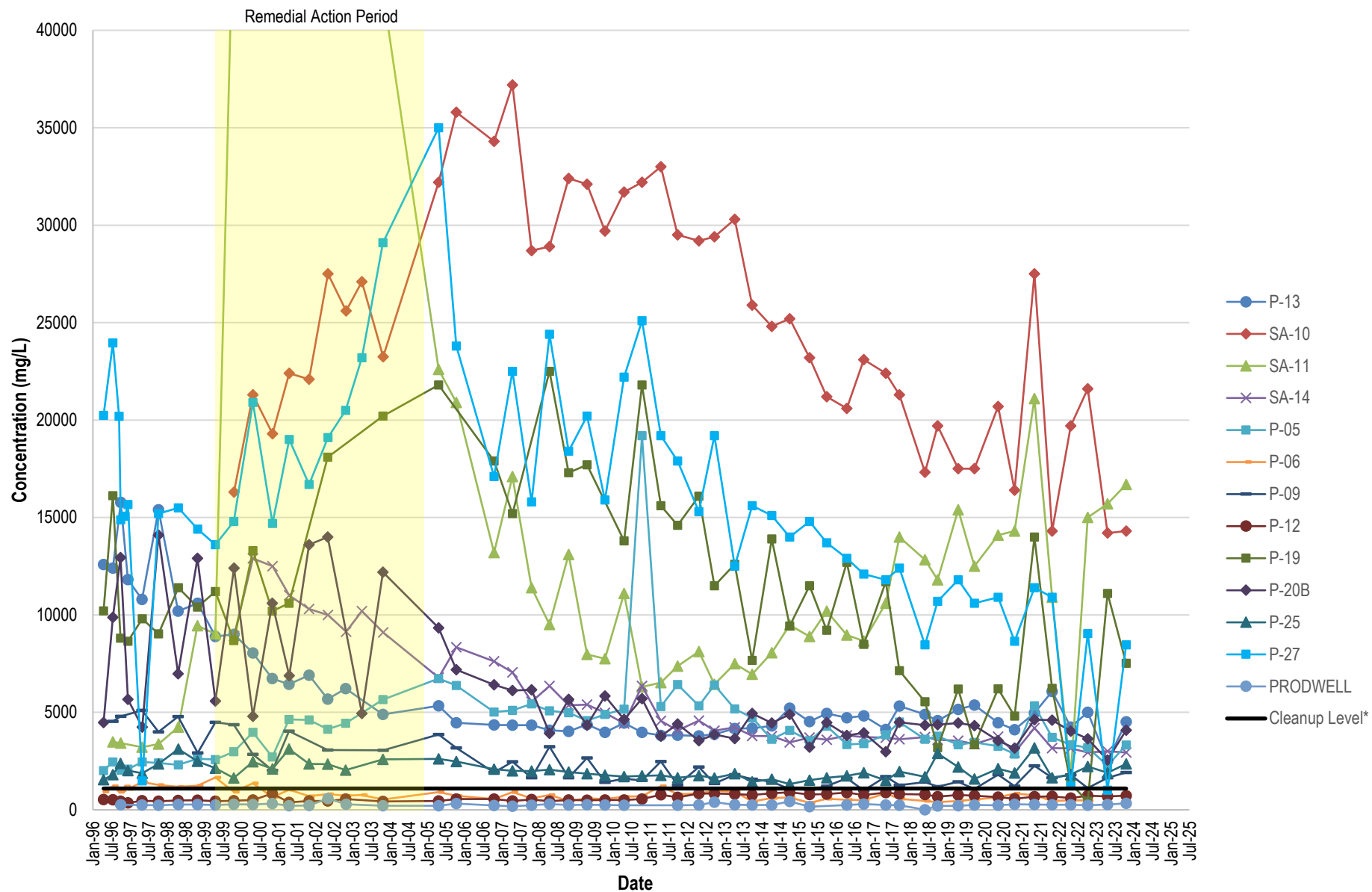
Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for well SA-11.
3. *Site-Specific Cleanup Level for Chloride is 230 mg/L; reference L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999).



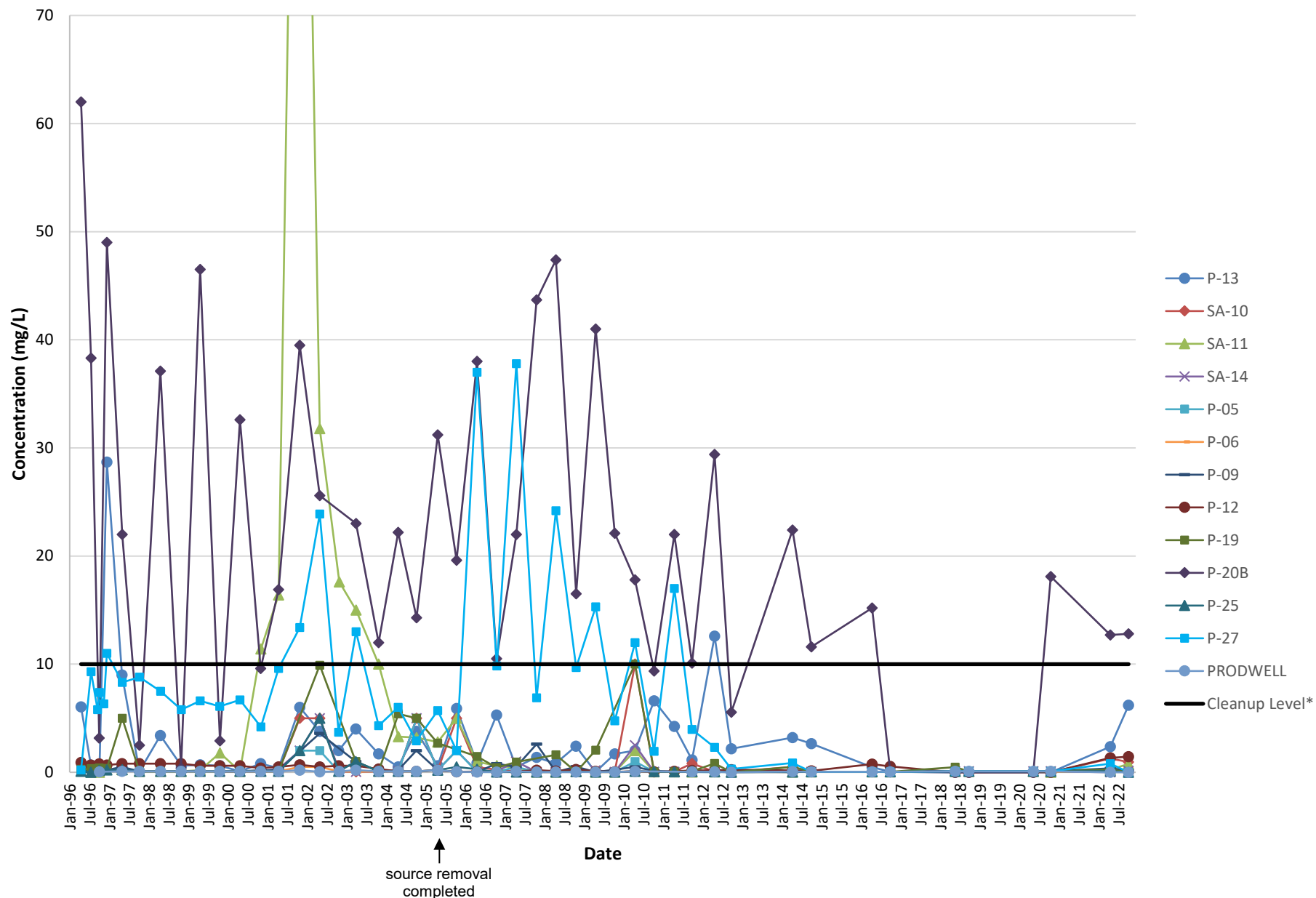
Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for well SA-11.
3. *Site-Specific Cleanup Level for Ammonia is 0.13 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.



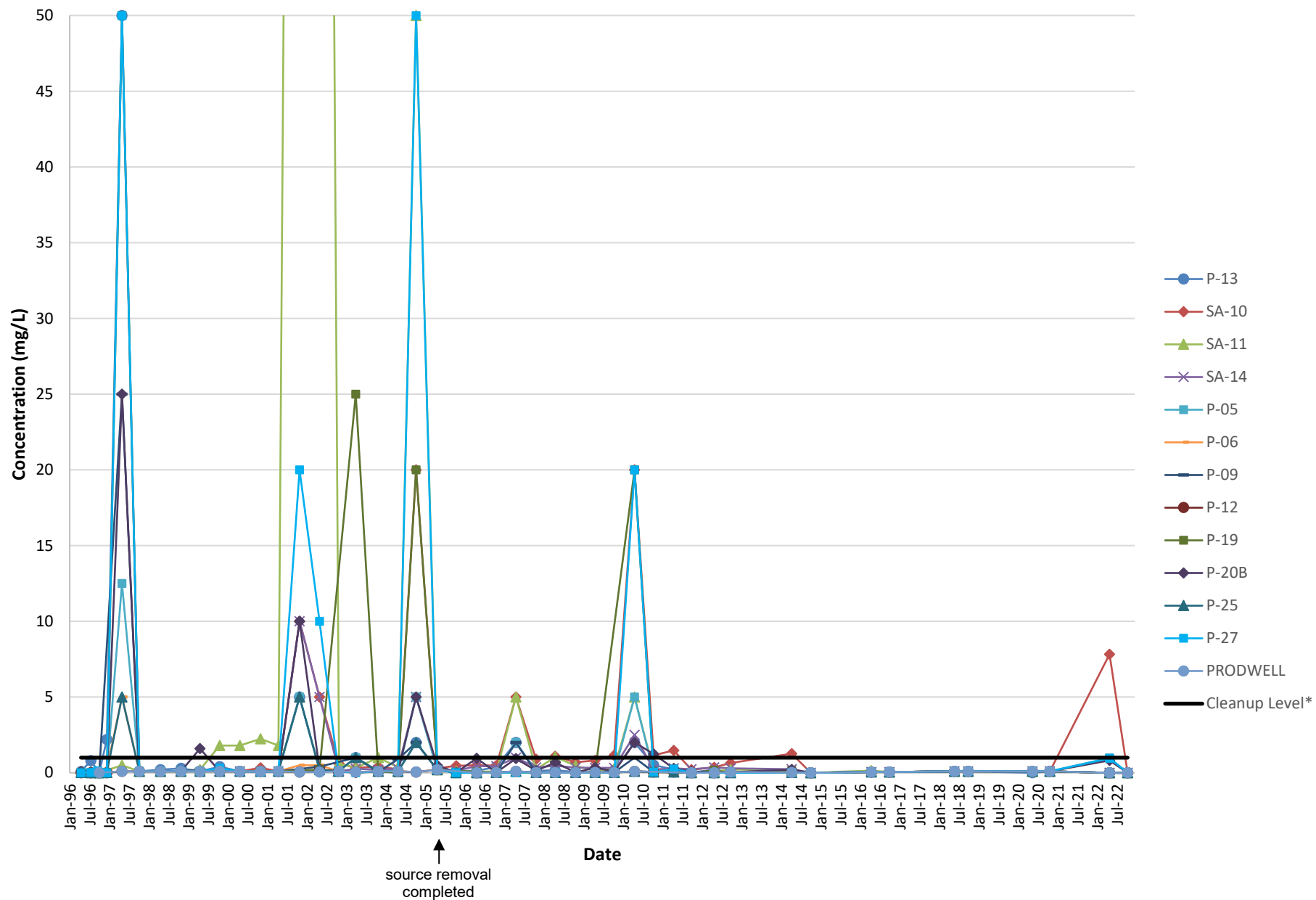
Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for SA-11.
3. *Site-Specific Cleanup Level for TDS is 1092.4 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.



- Notes:**
1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
 2. Concentration scale truncated - one high value not shown for well SA-11.
 3. *Site-Specific Cleanup Level for Nitrate is 10 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.

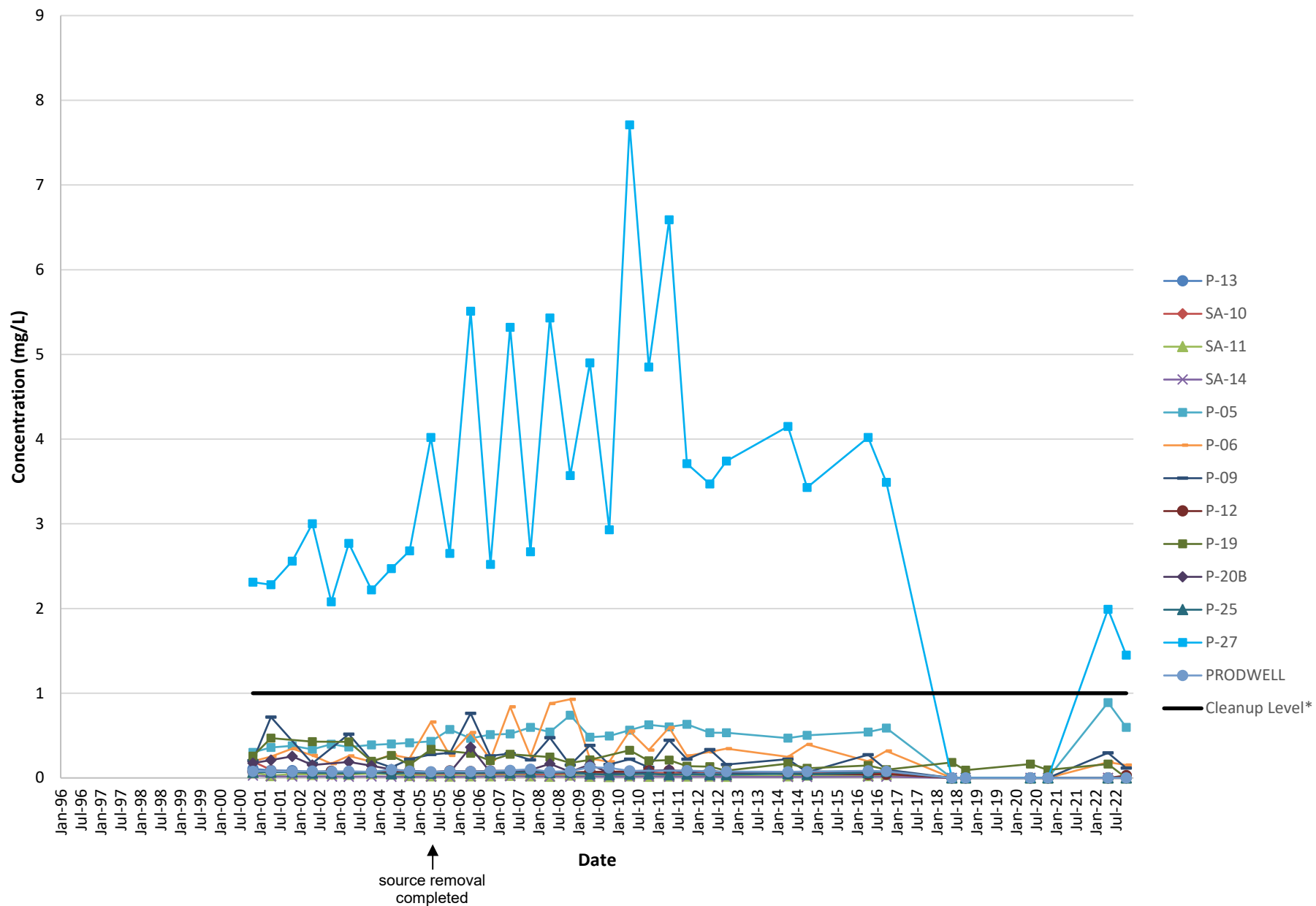
Appendix C. Nitrate Concentrations
 2023 L-Bar Site Five Year Review Report
 L-Bar Site Compliance Monitoring Program



Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - two high values not shown for well SA-11.
3. *Site-Specific Cleanup Level for Nitrite is 1.0 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.

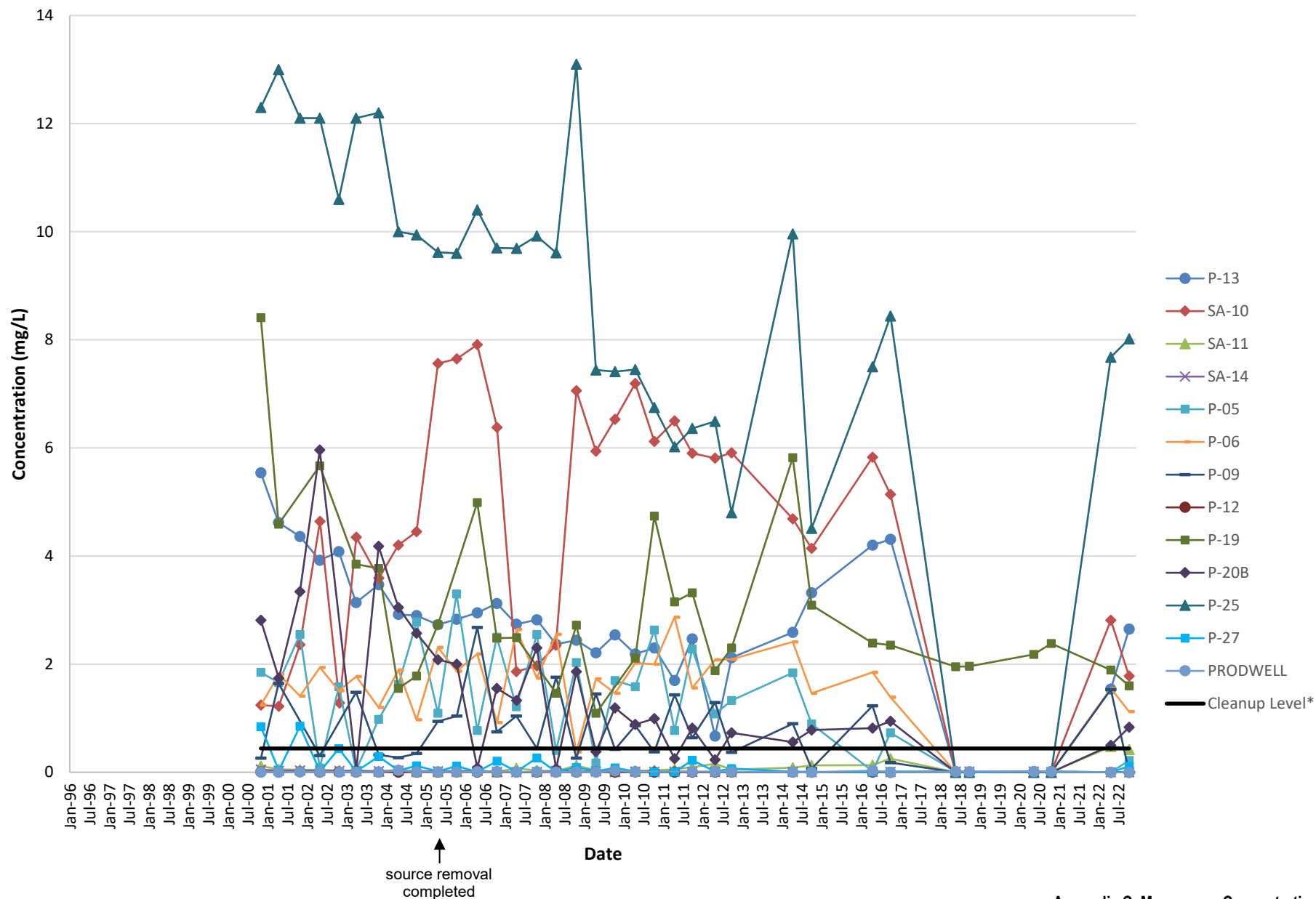
Appendix C. Nitrite Concentrations
 2023 L-Bar Site Five Year Review Report
 L-Bar Site Compliance Monitoring Program



Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. *Site-Specific Cleanup Level for barium is 1.0 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.

Appendix C. Barium Concentrations
 2023 L-Bar Site Five Year Review Report
 L-Bar Site Compliance Monitoring Program

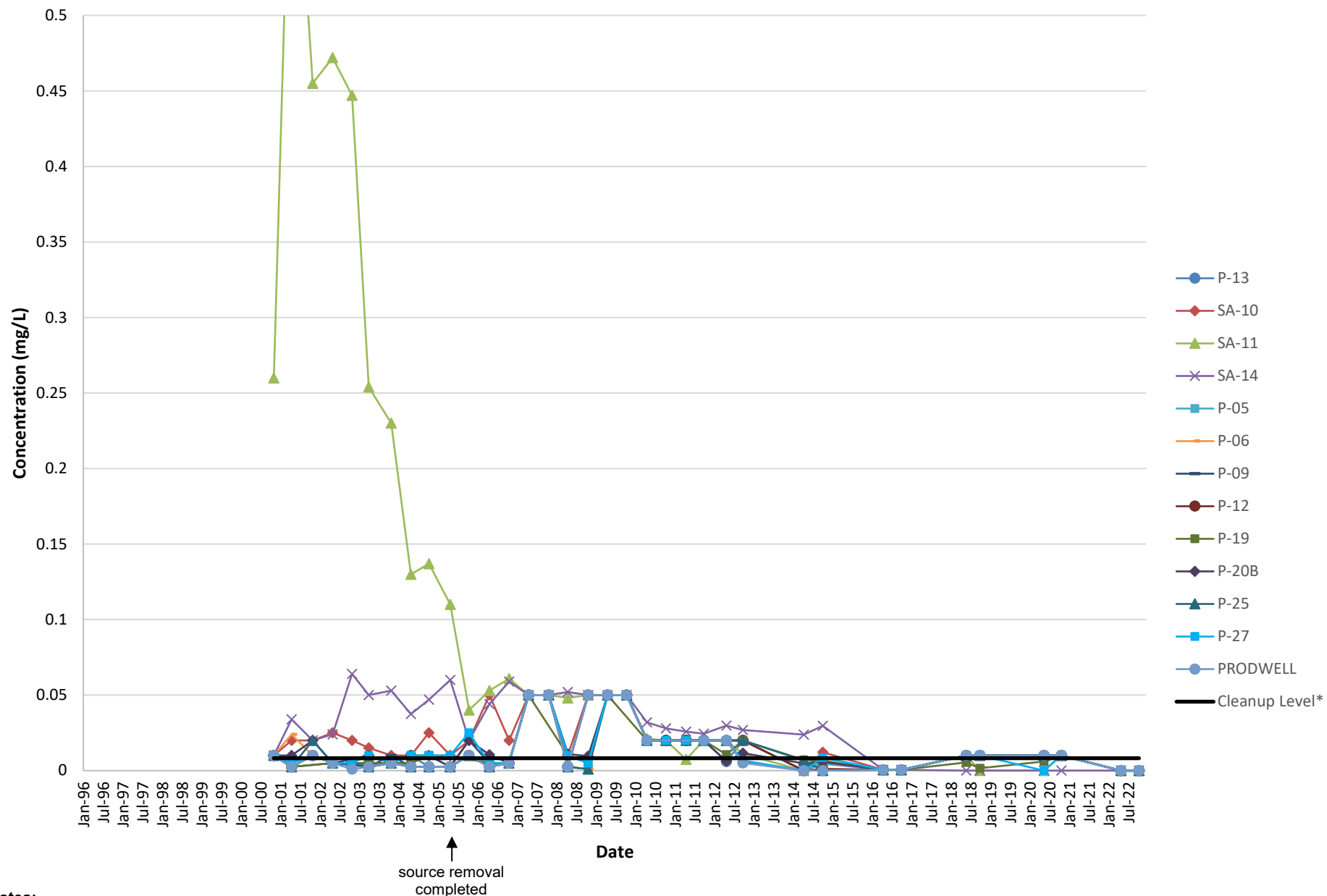


Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. *Site-Specific Cleanup Level for manganese is 0.44 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.

Appendix C. Manganese Concentrations

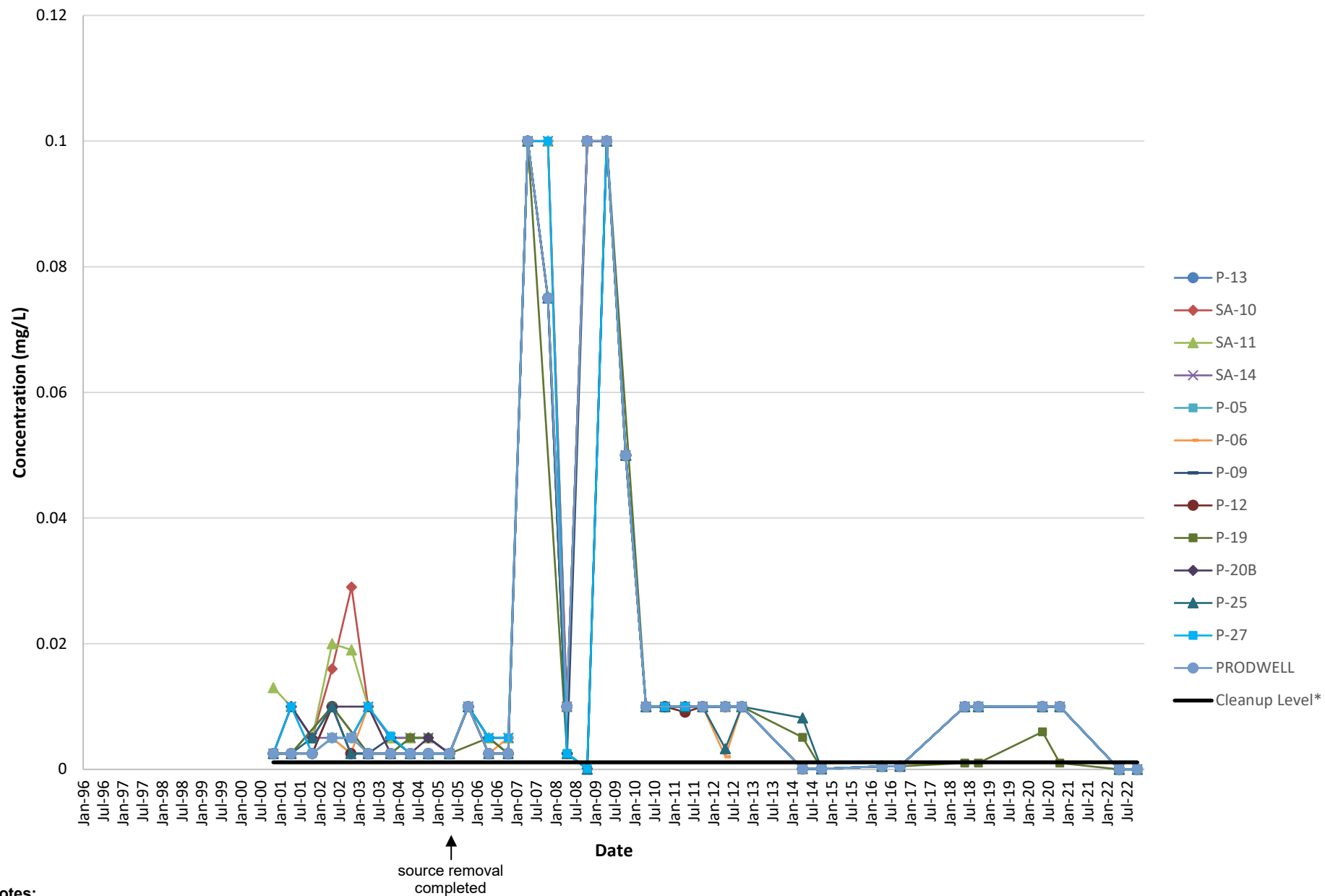
2023 L-Bar Site Five Year Review Report
L-Bar Site Compliance Monitoring Program



Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - one high value not shown for well SA-11.
3. *Site-Specific Cleanup Level for selenium is 0.001 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report* (CH2M HILL, 1999).

Appendix C. Selenium Concentrations
 2023 L-Bar Site Five Year Review Report
 L-Bar Site Compliance Monitoring Program



Notes:

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. *Site-Specific Cleanup Level for thallium is 0.0002 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report* (CH2M HILL, 1999).

Appendix C. Thallium Concentrations
 2023 L-Bar Site Five Year Review Report
 L-Bar Site Compliance Monitoring Program

APPENDIX D

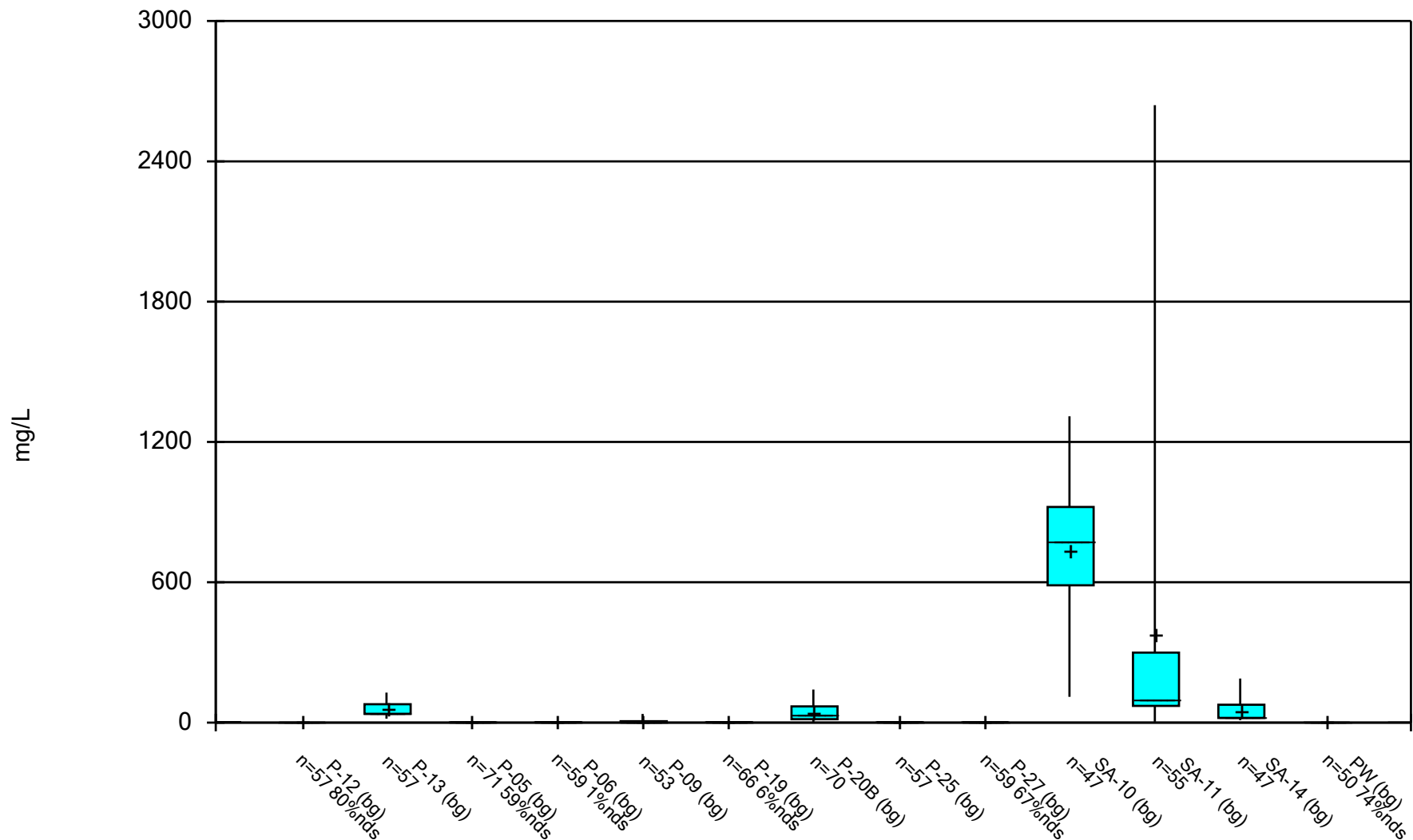
Groundwater Descriptive Statistics

Appendix D-1. Descriptive Statistics for Primary Parameters
2023 L-Bar Site Five-Year Review Report

Constituent Name	Well	Obs.	Mean	Std. Dev.	Variance	Median	Minimum	Maximum	% Non-Detects
Ammonia-N (mg/L)	P-12 (bg)	57	0.0326	0.05825	0.007715	0.025	0.0005	0.37	80.7
Ammonia-N (mg/L)	P-13 (bg)	57	57.19	29.59	3.919	43.3	16.7	128	0
Ammonia-N (mg/L)	P-05 (bg)	71	0.0484	0.05251	0.006232	0.025	0.003	0.27	59.15
Ammonia-N (mg/L)	P-06 (bg)	59	0.5751	0.2168	0.02822	0.58	0.025	0.911	1.695
Ammonia-N (mg/L)	P-09 (bg)	53	5.284	6.854	0.9414	3.02	0.022	36.8	0
Ammonia-N (mg/L)	P-19 (bg)	66	0.4582	0.3458	0.04256	0.3435	0.01	1.38	6.061
Ammonia-N (mg/L)	P-20B (bg)	70	42.38	35.66	4.262	28.25	0.03	141	0
Ammonia-N (mg/L)	P-25 (bg)	57	0.6866	0.2724	0.03608	0.66	0.184	1.7	0
Ammonia-N (mg/L)	P-27 (bg)	59	0.0366	0.04104	0.005343	0.025	0.001	0.218	67.8
Ammonia-N (mg/L)	SA-10 (bg)	47	738.3	246.9	36.01	775	110	1310	0
Ammonia-N (mg/L)	SA-11 (bg)	55	382.5	642.4	86.62	103	3.84	2640	0
Ammonia-N (mg/L)	SA-14 (bg)	47	51.63	46.37	6.764	27.4	9.9	188	0
Ammonia-N (mg/L)	PW (bg)	50	0.04506	0.1066	0.01508	0.025	0.0005	0.712	74
Chloride (mg/L)	P-12 (bg)	59	7.567	13.9	1.809	4.9	0.758	110	0
Chloride (mg/L)	P-13 (bg)	59	2250	2293	298.5	1190	611	8700	0
Chloride (mg/L)	P-05 (bg)	73	2092	745.9	87.3	2040	871	4230	0
Chloride (mg/L)	P-06 (bg)	61	212.1	149	19.08	179	30	703	0
Chloride (mg/L)	P-09 (bg)	55	1199	852.7	115	907	43.6	3700	0
Chloride (mg/L)	P-19 (bg)	50	11448	4656	658.5	10400	3450	22500	0
Chloride (mg/L)	P-20B (bg)	71	3418	3290	390.5	2380	15.8	25600	0
Chloride (mg/L)	P-25 (bg)	59	614.9	215.1	28	654	227	940	0
Chloride (mg/L)	P-27 (bg)	61	9593	2434	311.6	9820	4790	14500	0
Chloride (mg/L)	SA-10 (bg)	49	7986	2990	427.1	8230	1240	16600	0
Chloride (mg/L)	SA-11 (bg)	57	7019	8655	1146	4410	18.7	43300	0
Chloride (mg/L)	SA-14 (bg)	49	1827	1064	152	1480	425	4280	0
Chloride (mg/L)	PW (bg)	52	0.9721	0.3388	0.04699	0.9555	0.5	2.56	0
Total Dissolved Solids (mg/L)	P-12 (bg)	55	612.9	158.2	21.33	556	352	898	0
Total Dissolved Solids (mg/L)	P-13 (bg)	55	6195	3156	425.6	4890	2500	15772	0
Total Dissolved Solids (mg/L)	P-05 (bg)	55	4256	2410	324.9	3850	1910	19200	0
Total Dissolved Solids (mg/L)	P-06 (bg)	58	776.9	293.1	38.48	712.5	356	1660	0
Total Dissolved Solids (mg/L)	P-09 (bg)	51	2352	1249	174.8	1800	997	5290	0
Total Dissolved Solids (mg/L)	P-19 (bg)	67	6922	2209	269.9	6700	1320	14000	0
Total Dissolved Solids (mg/L)	P-20B (bg)	55	6240	3528	475.7	4630	2550	17500	0
Total Dissolved Solids (mg/L)	P-25 (bg)	55	2022	429.5	57.92	1920	1320	3180	0
Total Dissolved Solids (mg/L)	P-27 (bg)	58	15868	5971	784	15150	1010	35000	0
Total Dissolved Solids (mg/L)	SA-10 (bg)	46	24773	6156	907.7	24025	14200	37200	0
Total Dissolved Solids (mg/L)	SA-11 (bg)	54	18812	19776	2691	11250	3210	81000	0
Total Dissolved Solids (mg/L)	SA-14 (bg)	46	5555	2747	405	4215	2940	12900	0
Total Dissolved Solids (mg/L)	PW (bg)	48	256.9	76.31	11.01	250.5	2.5	580	2.083

Note: Descriptive Statistics calculated for primary suite over period of record up through 2023.

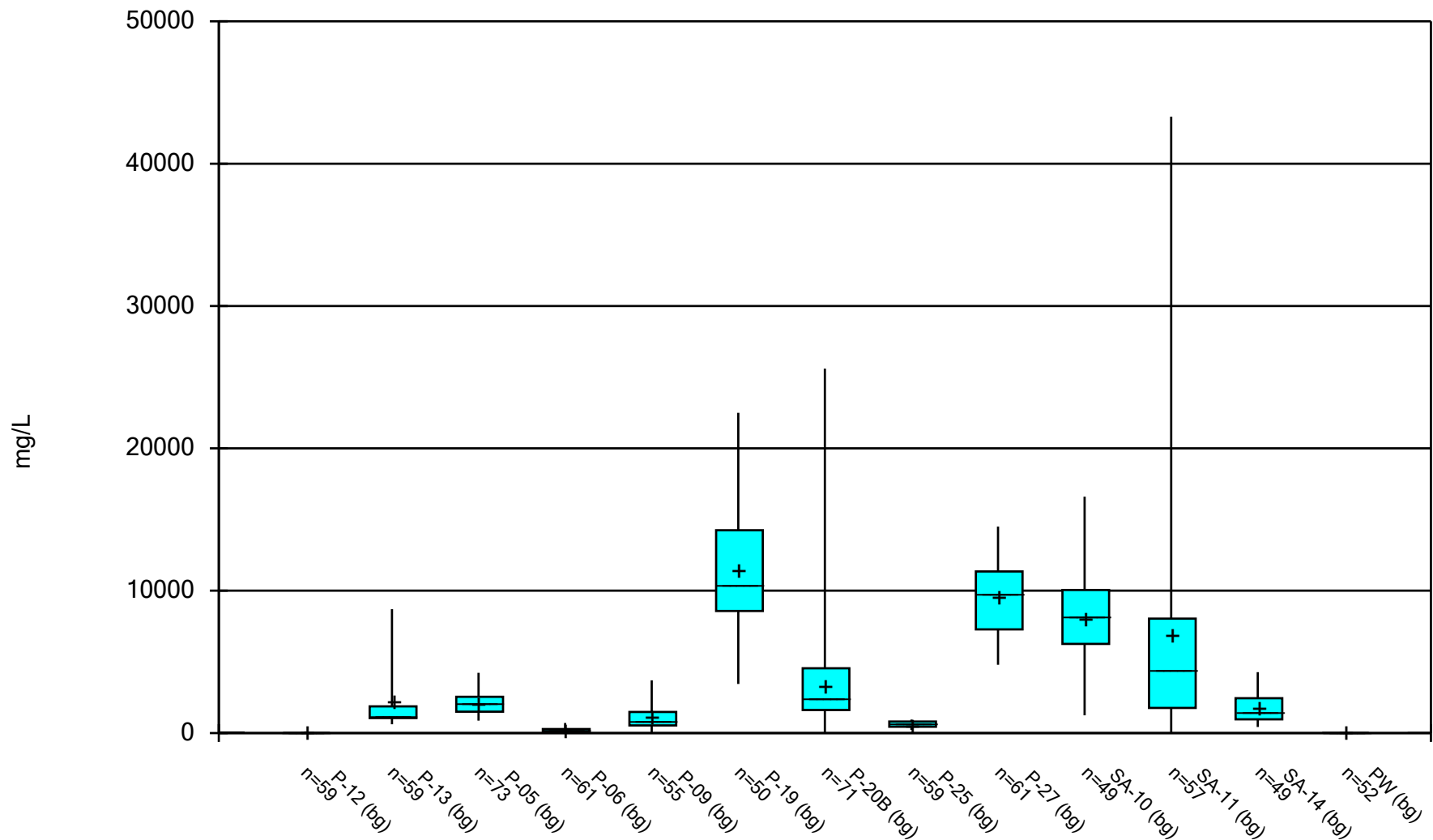
Box & Whiskers Plot



Constituent: Ammonia-N Analysis Run 5/15/2024 1:14 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

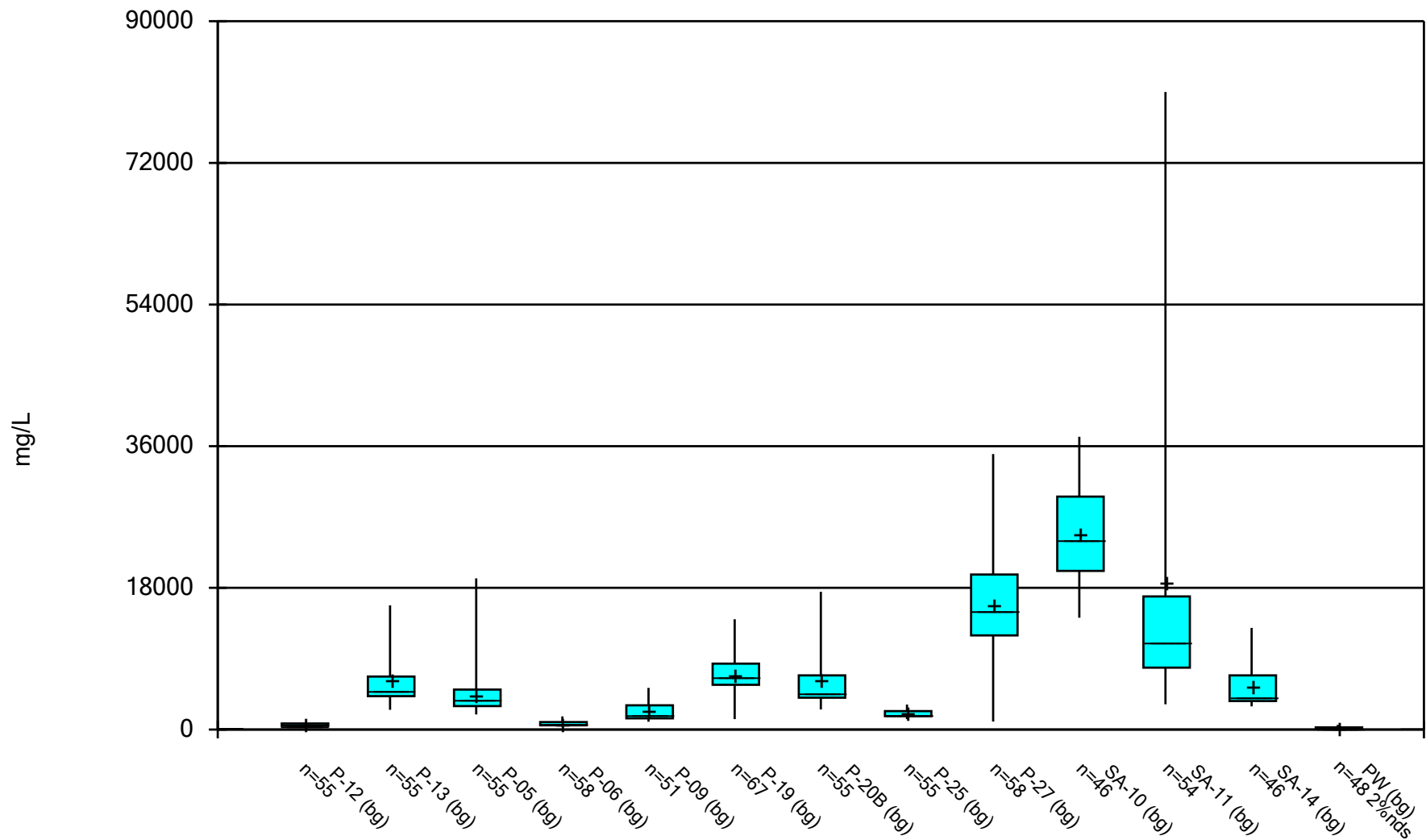
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/15/2024 1:14 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/15/2024 1:14 PM

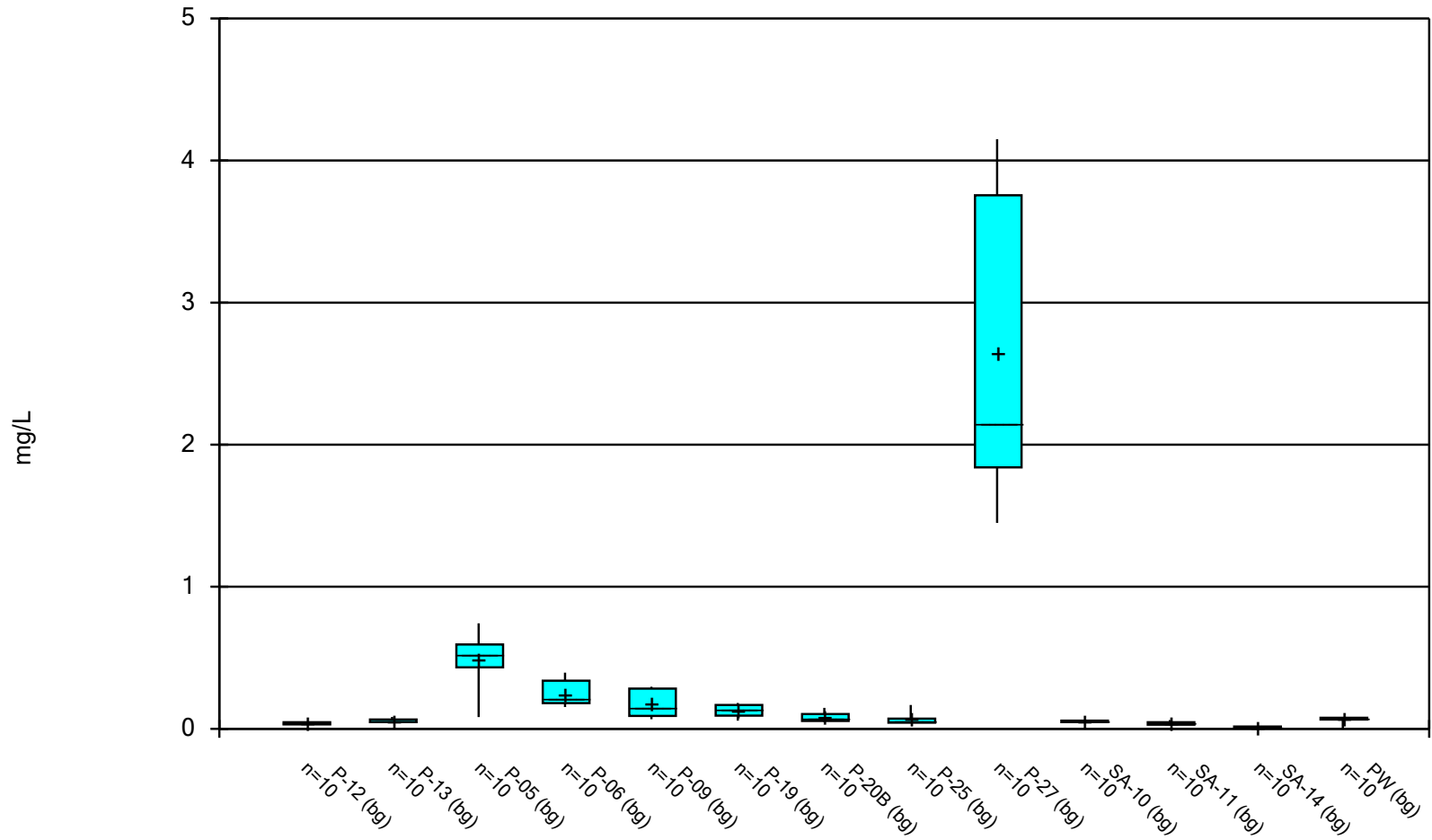
Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Appendix D-2. Descriptive Statistics for Secondary Suite
2023 L-Bar Site Five-Year Review Report

Constituent Name	Well	Observations	Mean	Std. Dev.	Variance	Median	Minimum	Maximum	% Non-Detect
Barium (mg/L)	P-12 (bg)	10	0.03892	0.007588	0.002399	0.03915	0.0272	0.0489	0
Barium (mg/L)	P-13 (bg)	10	0.05761	0.01224	0.003872	0.0536	0.0437	0.0841	0
Barium (mg/L)	P-05 (bg)	10	0.4937	0.1719	0.05435	0.5225	0.0823	0.742	0
Barium (mg/L)	P-06 (bg)	10	0.2451	0.08415	0.02661	0.2135	0.154	0.395	0
Barium (mg/L)	P-09 (bg)	10	0.1754	0.08885	0.0281	0.1485	0.0679	0.296	0
Barium (mg/L)	P-19 (bg)	10	0.1282	0.04242	0.01342	0.13	0.058	0.182	0
Barium (mg/L)	P-20B (bg)	10	0.08016	0.03258	0.0103	0.07075	0.0482	0.148	0
Barium (mg/L)	P-25 (bg)	10	0.06563	0.03793	0.012	0.0555	0.0391	0.168	0
Barium (mg/L)	P-27 (bg)	10	2.652	1.007	0.3183	2.155	1.45	4.15	0
Barium (mg/L)	SA-10 (bg)	10	0.05236	0.006097	0.001928	0.0533	0.0402	0.0593	0
Barium (mg/L)	SA-11 (bg)	10	0.03888	0.01099	0.003475	0.0379	0.0253	0.062	0
Barium (mg/L)	SA-14 (bg)	10	0.01456	0.00264	0.0008348	0.01425	0.0109	0.0197	0
Barium (mg/L)	PW (bg)	10	0.06774	0.02169	0.006859	0.0746	0.00823	0.0839	0
Manganese (mg/L)	P-12 (bg)	10	0.006267	0.009364	0.002961	0.002385	0.0005	0.0299	30
Manganese (mg/L)	P-13 (bg)	10	3.679	1.087	0.3437	4.255	1.54	4.62	0
Manganese (mg/L)	P-05 (bg)	10	0.5171	0.5606	0.1773	0.366	0.00662	1.84	0
Manganese (mg/L)	P-06 (bg)	10	1.651	0.3772	0.1193	1.645	1.12	2.41	0
Manganese (mg/L)	P-09 (bg)	10	0.636	0.607	0.192	0.382	0.0673	1.53	0
Manganese (mg/L)	P-19 (bg)	10	2.561	1.214	0.3839	2.265	1.6	5.82	0
Manganese (mg/L)	P-20B (bg)	10	0.9998	0.7036	0.2225	0.799	0.366	2.45	0
Manganese (mg/L)	P-25 (bg)	10	8.901	2.089	0.6606	9.2	4.51	11.5	0
Manganese (mg/L)	P-27 (bg)	10	0.06053	0.1056	0.0334	0.008805	0.00217	0.333	10
Manganese (mg/L)	SA-10 (bg)	10	3.99	1.285	0.4064	4.325	1.78	5.83	0
Manganese (mg/L)	SA-11 (bg)	10	0.2877	0.159	0.05029	0.2815	0.0859	0.56	0
Manganese (mg/L)	SA-14 (bg)	10	0.005898	0.002396	0.0007577	0.005365	0.00246	0.0104	0
Manganese (mg/L)	PW (bg)	10	0.004783	0.008478	0.002681	0.00229	0.0005	0.0286	30
Nitrate-N (mg/L)	P-12 (bg)	10	0.9781	0.5445	0.1722	1.16	0.14	1.65	0
Nitrate-N (mg/L)	P-13 (bg)	10	2.82	2.1	0.6639	2.67	0.155	6.21	10
Nitrate-N (mg/L)	P-05 (bg)	10	0.5571	1.562	0.4939	0.05	0.031	5	80
Nitrate-N (mg/L)	P-06 (bg)	10	0.128	0.1471	0.04652	0.05	0.03	0.5	70
Nitrate-N (mg/L)	P-09 (bg)	10	0.3348	0.7682	0.2429	0.05	0.02	2.5	70
Nitrate-N (mg/L)	P-19 (bg)	10	2.152	6.274	1.984	0.05	0.05	20	70
Nitrate-N (mg/L)	P-20B (bg)	10	11.94	5.992	1.895	12.35	2.18	22.4	10
Nitrate-N (mg/L)	P-25 (bg)	10	0.2983	0.7739	0.2447	0.05	0.025	2.5	90
Nitrate-N (mg/L)	P-27 (bg)	10	5.201	15.74	4.979	0.05	0.05	50	80
Nitrate-N (mg/L)	SA-10 (bg)	10	3.037	7.735	2.446	0.495	0.05	25	50
Nitrate-N (mg/L)	SA-11 (bg)	10	0.2426	0.2867	0.09067	0.05	0.025	0.784	70
Nitrate-N (mg/L)	SA-14 (bg)	10	0.5957	1.554	0.4914	0.05	0.025	5	90
Nitrate-N (mg/L)	PW (bg)	10	0.0509	0.002846	0.0009	0.05	0.05	0.059	90
Nitrite-N (mg/L)	P-12 (bg)	10	0.0468	0.01012	0.0032	0.05	0.018	0.05	90
Nitrite-N (mg/L)	P-13 (bg)	10	1.344	2.731	0.8635	0.05	0.05	7.75	70
Nitrite-N (mg/L)	P-05 (bg)	10	0.6344	1.562	0.4939	0.05	0.015	5	80
Nitrite-N (mg/L)	P-06 (bg)	10	0.0968	0.143	0.04523	0.05	0.018	0.5	90
Nitrite-N (mg/L)	P-09 (bg)	10	0.2954	0.7746	0.245	0.05	0.05	2.5	90
Nitrite-N (mg/L)	P-19 (bg)	10	2.054	6.306	1.994	0.05	0.05	20	90
Nitrite-N (mg/L)	P-20B (bg)	10	0.6385	1.551	0.4906	0.05	0.05	5	80
Nitrite-N (mg/L)	P-25 (bg)	10	0.2919	0.7759	0.2454	0.05	0.019	2.5	90
Nitrite-N (mg/L)	P-27 (bg)	10	93.83	279.1	88.27	0.05	0.018	887	70
Nitrite-N (mg/L)	SA-10 (bg)	10	2.711	7.841	2.48	0.05	0.05	25	90
Nitrite-N (mg/L)	SA-11 (bg)	10	97.01	306.4	96.89	0.05	0.05	969	70
Nitrite-N (mg/L)	SA-14 (bg)	10	0.608	1.55	0.4902	0.05	0.05	5	90
Nitrite-N (mg/L)	PW (bg)	10	0.0464	0.01138	0.0036	0.05	0.014	0.05	90
Selenium (mg/L)	P-12 (bg)	10	0.002224	0.003083	0.000975	0.000775	0.0005	0.01	80
Selenium (mg/L)	P-13 (bg)	10	0.003639	0.002799	0.000885	0.00332	0.0005	0.01	50
Selenium (mg/L)	P-05 (bg)	10	0.003642	0.002777	0.000878	0.0028	0.0005	0.01	40
Selenium (mg/L)	P-06 (bg)	10	0.0021	0.003143	0.0009939	0.0005	0.0005	0.01	100
Selenium (mg/L)	P-09 (bg)	10	0.002171	0.003111	0.0009837	0.0005	0.0005	0.01	90
Selenium (mg/L)	P-19 (bg)	10	0.004149	0.002256	0.0007134	0.005015	0.0005	0.0071	30
Selenium (mg/L)	P-20B (bg)	10	0.003205	0.001789	0.0005657	0.00317	0.0005	0.00581	40
Selenium (mg/L)	P-25 (bg)	10	0.002062	0.00244	0.0007716	0.0005	0.0005	0.0066	80
Selenium (mg/L)	P-27 (bg)	10	0.005095	0.003778	0.001195	0.00384	0.0005	0.0103	40
Selenium (mg/L)	SA-10 (bg)	10	0.006804	0.005239	0.001657	0.005	0.0005	0.017	40
Selenium (mg/L)	SA-11 (bg)	10	0.009312	0.00565	0.001787	0.008495	0.0005	0.0195	30
Selenium (mg/L)	SA-14 (bg)	10	0.02084	0.009136	0.002889	0.02485	0.0005	0.0296	10
Selenium (mg/L)	PW (bg)	10	0.0021	0.003143	0.0009939	0.0005	0.0005	0.01	100
Thallium (mg/L)	P-12 (bg)	10	0.01145	0.0204	0.006451	0.0015	0.000025	0.05	100
Thallium (mg/L)	P-13 (bg)	10	0.002252	0.002369	0.0007492	0.0005	0.000025	0.005	90
Thallium (mg/L)	P-05 (bg)	10	0.001552	0.001934	0.0006114	0.0005	0.000025	0.005	100
Thallium (mg/L)	P-06 (bg)	10	0.001552	0.001934	0.0006114	0.0005	0.000025	0.005	100
Thallium (mg/L)	P-09 (bg)	10	0.001552	0.001934	0.0006114	0.0005	0.000025	0.005	100
Thallium (mg/L)	P-19 (bg)	10	0.001762	0.001935	0.0006119	0.0005	0.000025	0.0051	90
Thallium (mg/L)	P-20B (bg)	10	0.0016	0.001897	0.0006	0.0005	0.0005	0.005	100
Thallium (mg/L)	P-25 (bg)	10	0.002122	0.002861	0.0009049	0.0005	0.000025	0.0082	90
Thallium (mg/L)	P-27 (bg)	10	0.001752	0.001916	0.0006059	0.0005	0.000025	0.005	100
Thallium (mg/L)	SA-10 (bg)	10	0.002802	0.002223	0.0007029	0.00325	0.000025	0.005	90
Thallium (mg/L)	SA-11 (bg)	10	0.002002	0.002171	0.0006864	0.0005	0.000025	0.005	90
Thallium (mg/L)	SA-14 (bg)	10	0.0016	0.001897	0.0006	0.0005	0.0005	0.005	100
Thallium (mg/L)	PW (bg)	10	0.001552	0.001934	0.0006114	0.0005	0.000025	0.005	100

Notes:
Descriptive statistics calculated for secondary parameters over period 2013 to 2022 (every other year monitoring frequency).

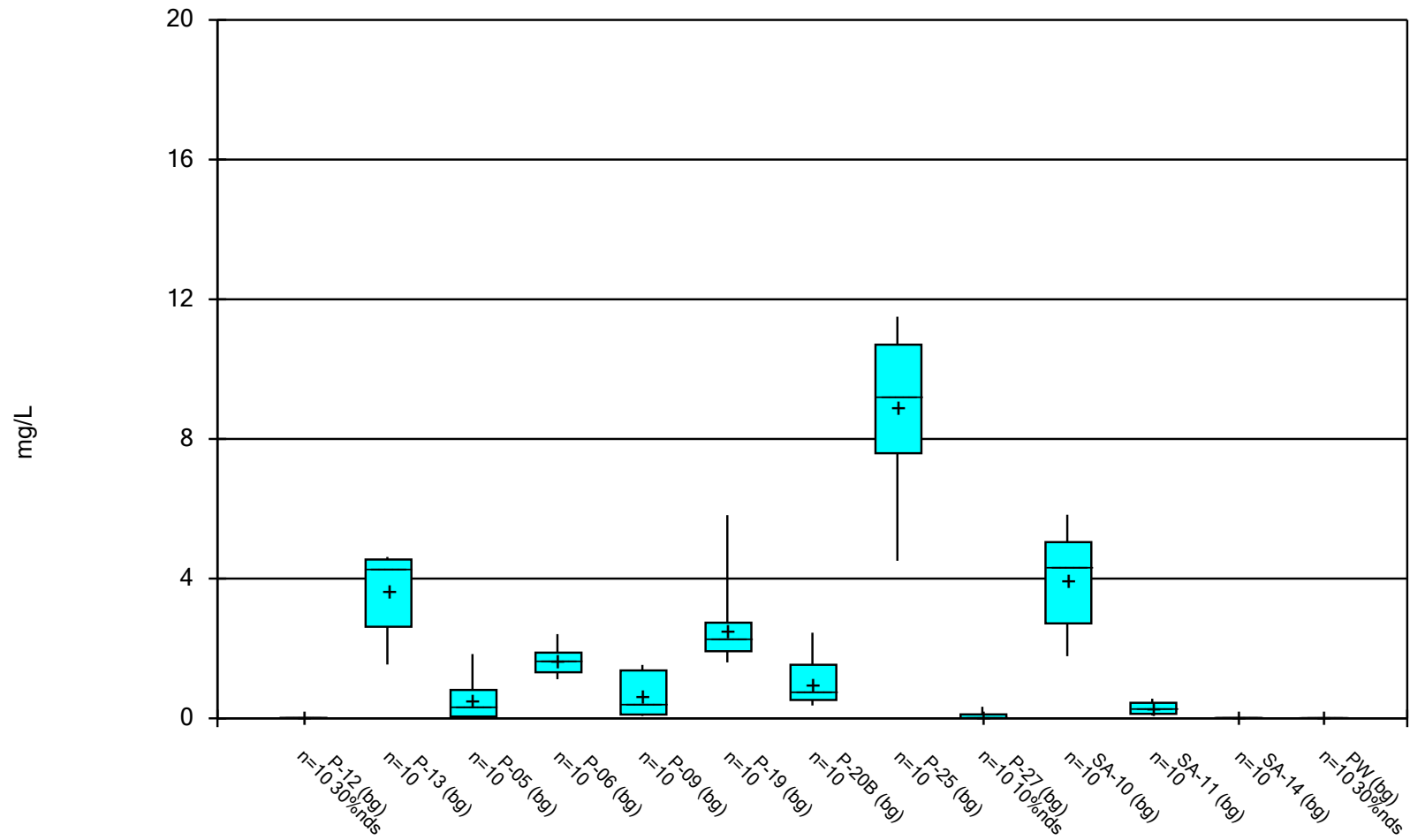
Box & Whiskers Plot



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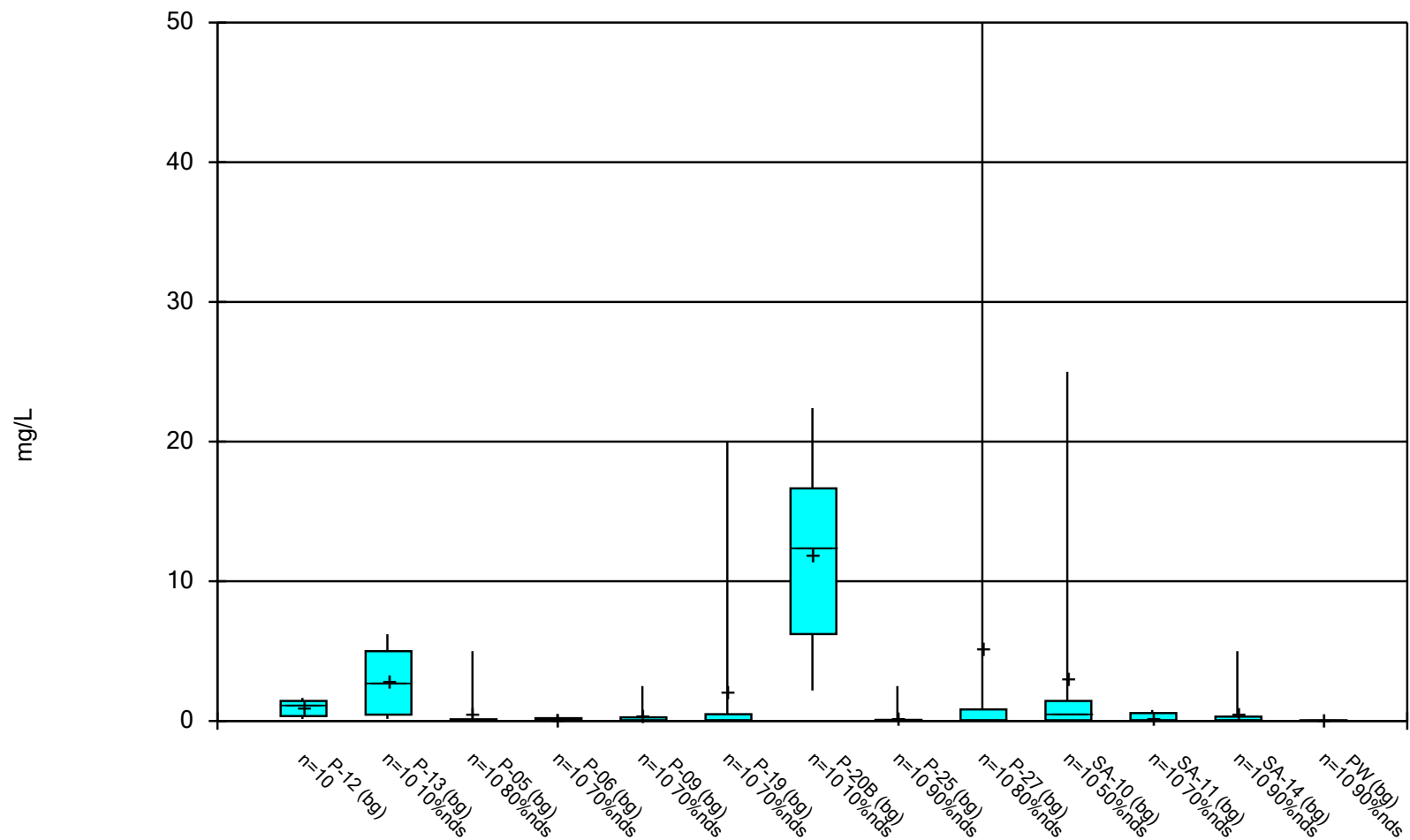
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Constituent: Manganese Analysis Run 3/6/2023 10:25 AM

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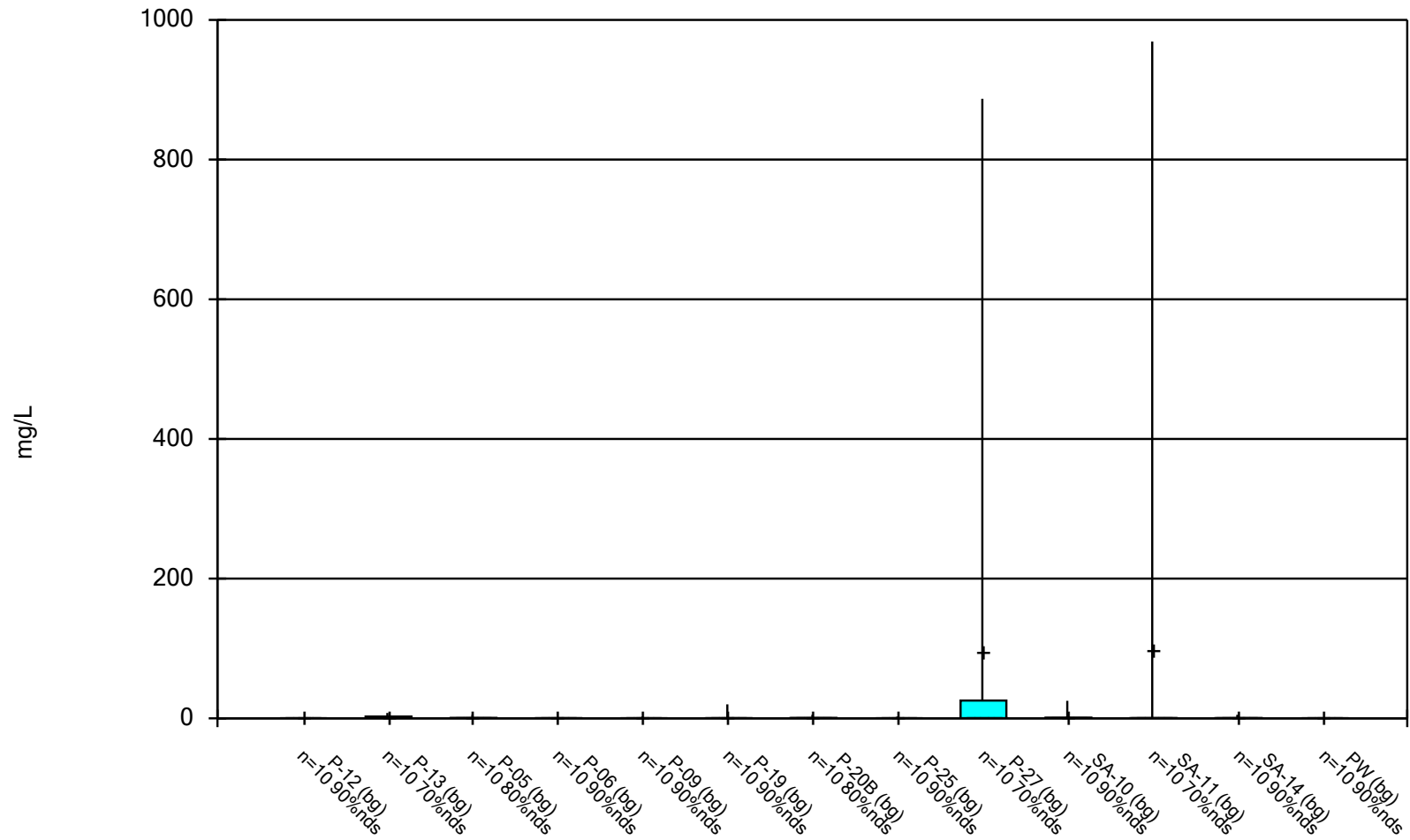
Box & Whiskers Plot



Constituent: Nitrate-N Analysis Run 3/6/2023 10:25 AM

Alcoa - Northwest Alloys Client: Great West Data: 01_LBAR_Sanitas_Fall 2022_FINAL v5

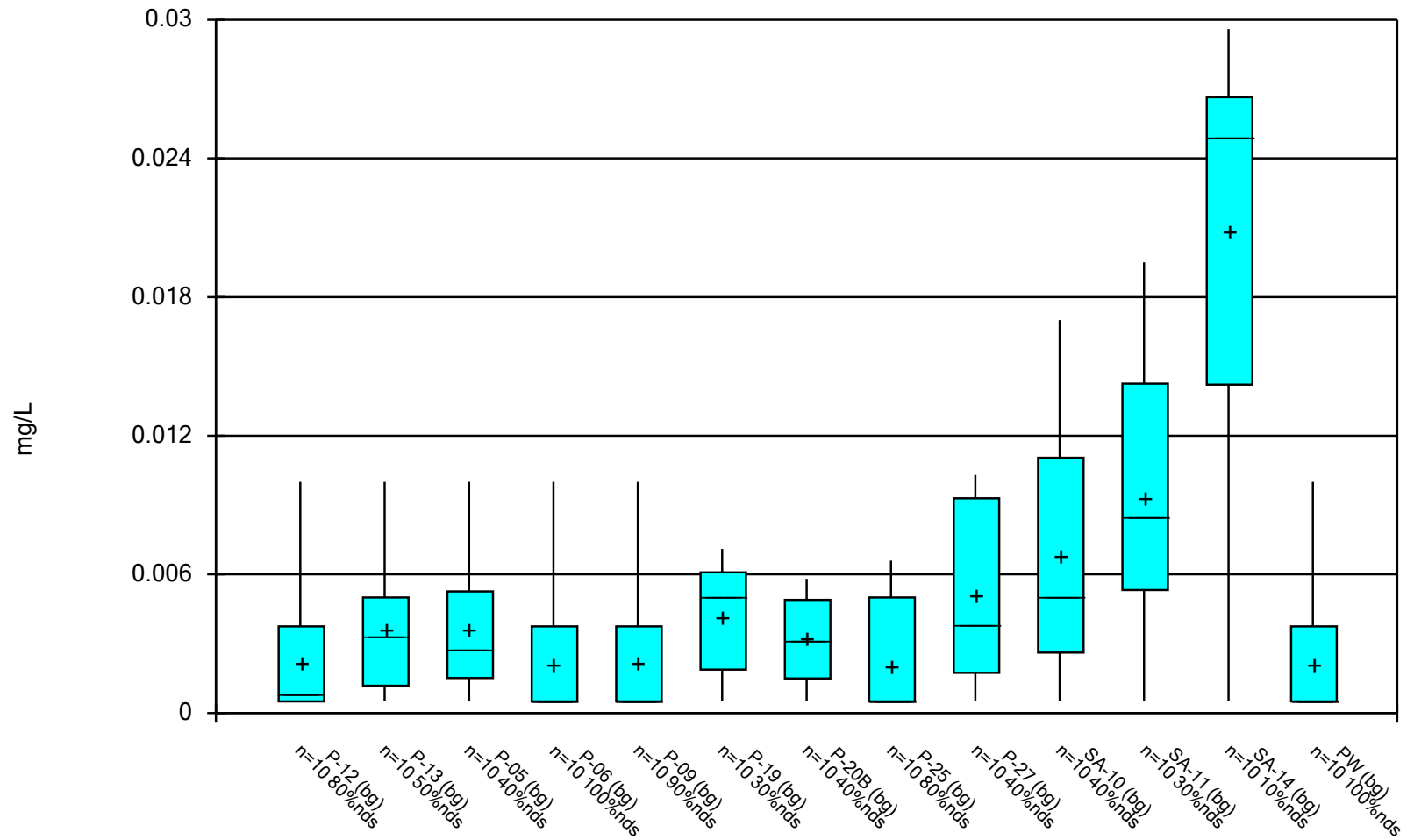
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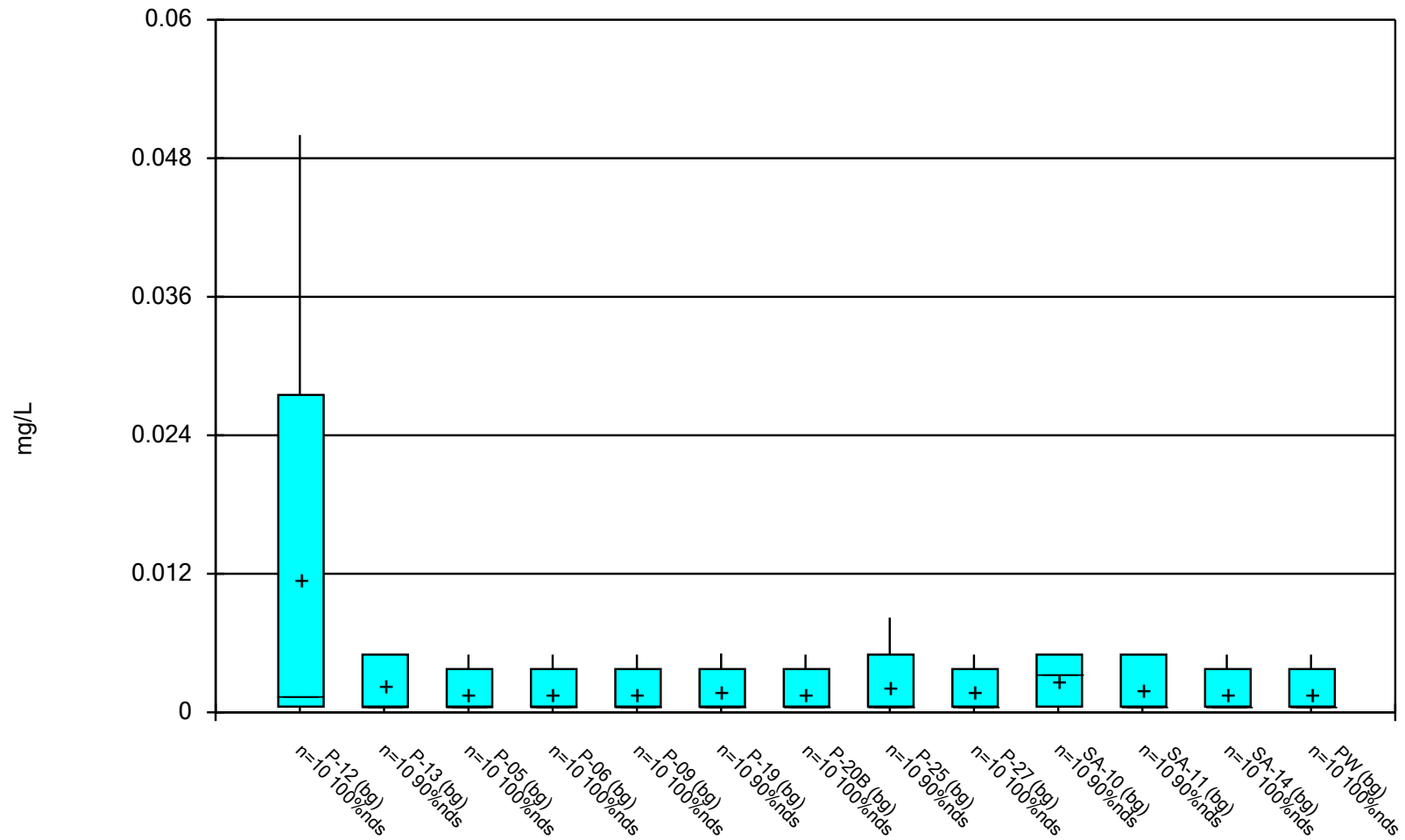
Box & Whiskers Plot



Constituent: Selenium Analysis Run 3/6/2023 10:25 AM

Alcoa - Northwest Alloys Client: Great West Data: 01_LBAR_Sanitas_Fall 2022_FINAL v5

Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/6/2023 10:25 AM

Alcoa - Northwest Alloys Client: Great West Data: 01_LBAR_Sanitas_Fall 2022_FINAL v5

APPENDIX E

Groundwater Trend Results from Mann- Kendall Method

Appendix E. Trend Results from Mann-Kendall Method - Primary Parameters*2023 L-Bar Site Five Year Review Report*

Constituent Name	Well	Slope	Calculated Statistic	Critical Value	Trend	N	% Non-detects	Alpha	Method
Ammonia-N (mg/L)	P-12 (bg)	0	7	30	No	12	83.33	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-13 (bg)	-3.635	-42	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-05 (bg)	0	18	30	No	12	75	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-06 (bg)	-0.02528	-20	-30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-09 (bg)	0.1245	4	30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-19 (bg)	-0.08752	-18	-30	No	12	8.333	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-20B (bg)	-2.767	-38	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-25 (bg)	0.005148	3	30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	P-27 (bg)	0	-11	-30	No	12	50	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	SA-10 (bg)	-2.778	-2	-30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	SA-11 (bg)	6.419	26	30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	SA-14 (bg)	-0.3128	-10	-30	No	12	0	0.05	Sens Slope/Mann-K
Ammonia-N (mg/L)	PW (bg)	0	4	30	No	12	75	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-12 (bg)	-0.6912	-60	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-13 (bg)	-49.67	-40	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-05 (bg)	-86.26	-32	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-06 (bg)	-3.821	-8	-30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-09 (bg)	56.5	16	30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-19 (bg)	-847.4	-28	-30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-20B (bg)	-88.43	-18	-30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-25 (bg)	24.28	13	30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	P-27 (bg)	-144.9	-6	-30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	SA-10 (bg)	749.7	19	30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	SA-11 (bg)	715.3	44	30	Yes	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	SA-14 (bg)	-53.58	-20	-30	No	12	0	0.05	Sens Slope/Mann-K
Chloride (mg/L)	PW (bg)	0.02646	8	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-12 (bg)	-9.698	-6	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-13 (bg)	-104.8	-12	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-05 (bg)	-93.74	-25	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-06 (bg)	16.3	18	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-09 (bg)	85.32	19	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-19 (bg)	680.7	28	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-20B (bg)	-99.93	-18	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-25 (bg)	34.77	8	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	P-27 (bg)	-500	-19	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	SA-10 (bg)	-534	-9	-30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	SA-11 (bg)	708.5	28	30	No	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	SA-14 (bg)	-138.4	-35	-30	Yes	12	0	0.05	Sens Slope/Mann-K
Total Dissolved Solids (mg/L)	PW (bg)	20.17	36	30	Yes	12	8.333	0.05	Sens Slope/Mann-K

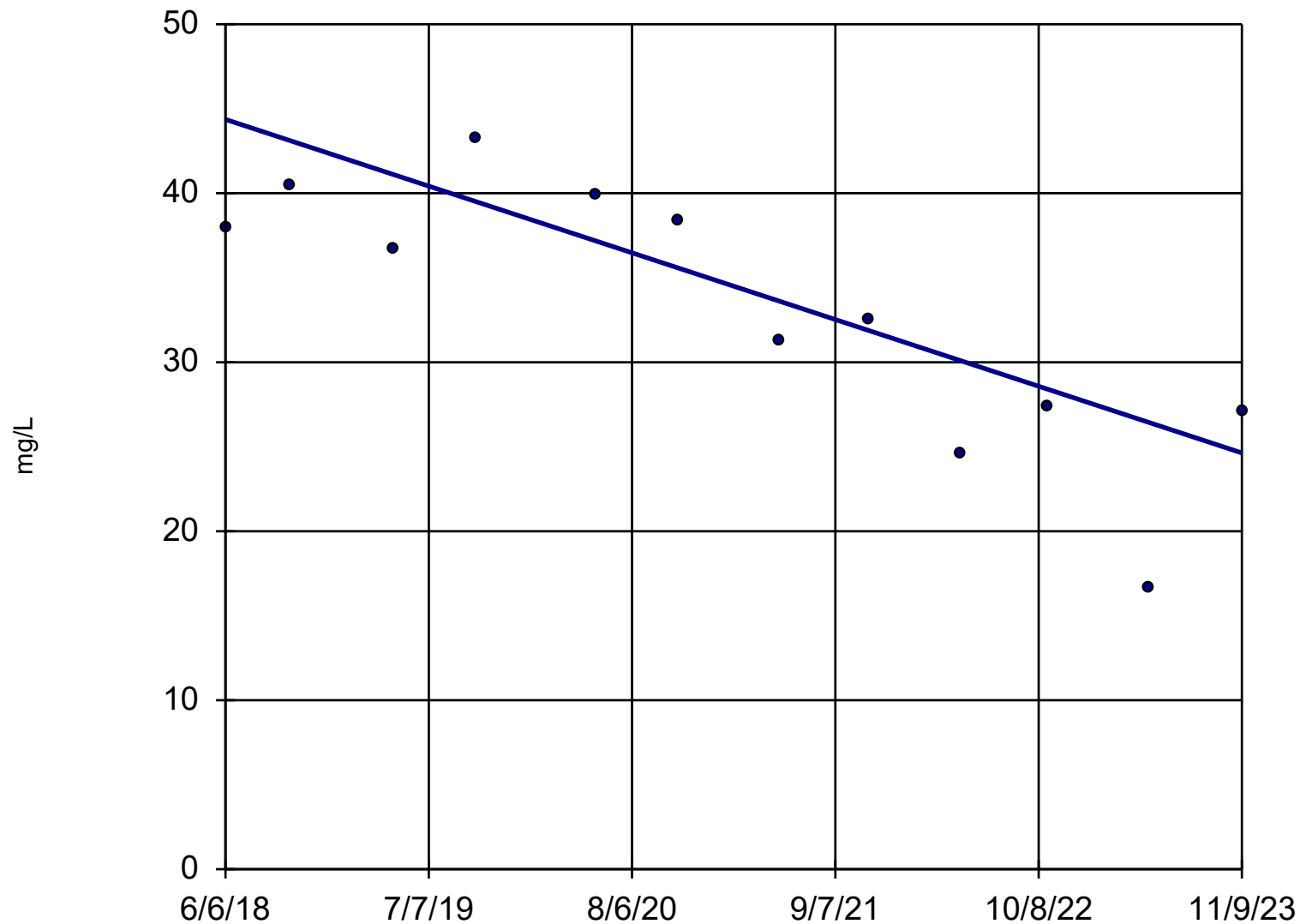
Note:

Trend results tested on primary suite from data over 2018 to 2023 (past 6 years).

Refer to Table 7 for a summary of significant cases and designation of trend direction (slope).

Sen's Slope Estimator

P-13 (bg)



n = 12

Slope = -3.635
units per year.

Mann-Kendall
statistic = -42
critical = -30

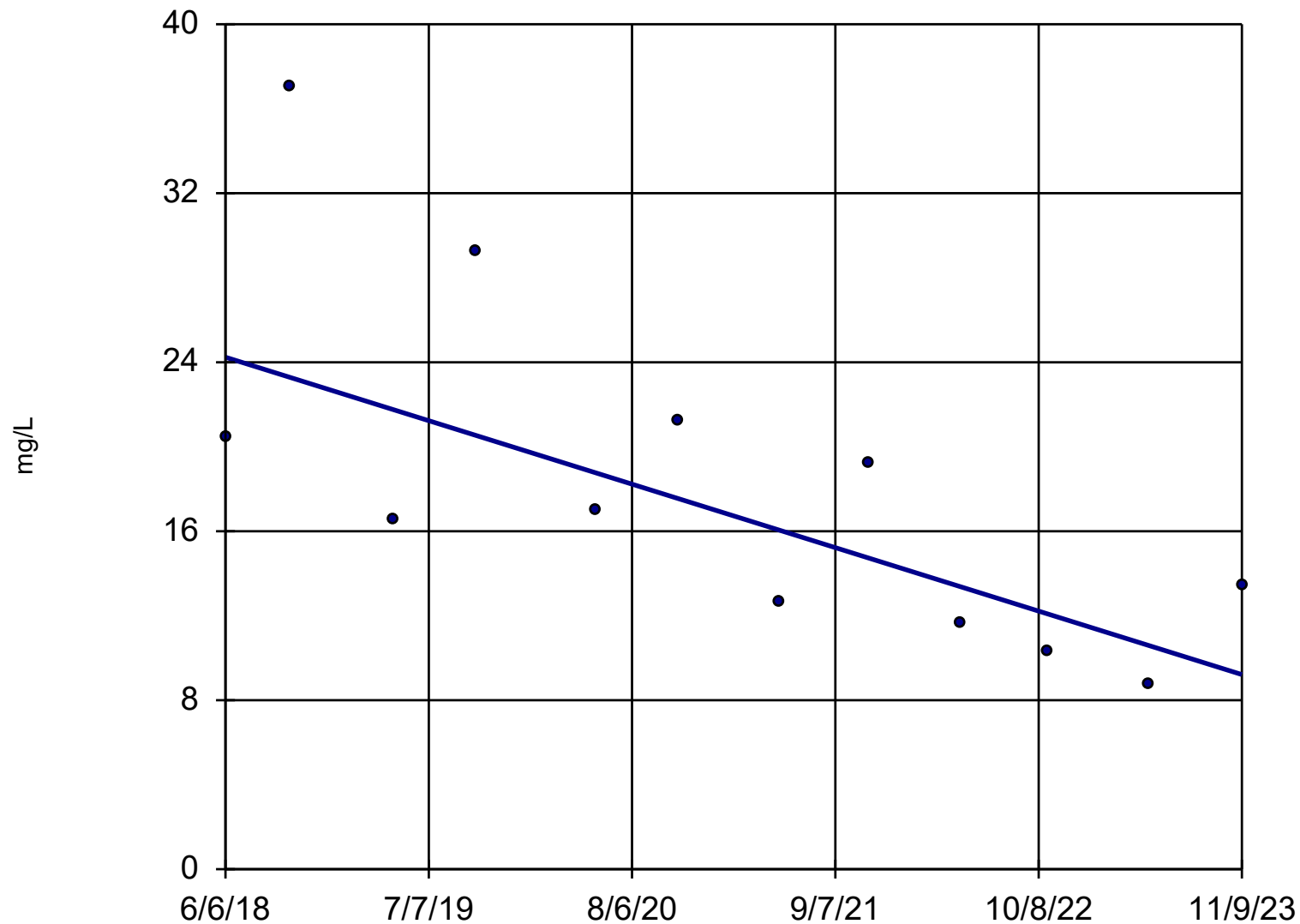
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Ammonia-N Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

P-20B (bg)



n = 12

Slope = -2.767
units per year.

Mann-Kendall
statistic = -38
critical = -30

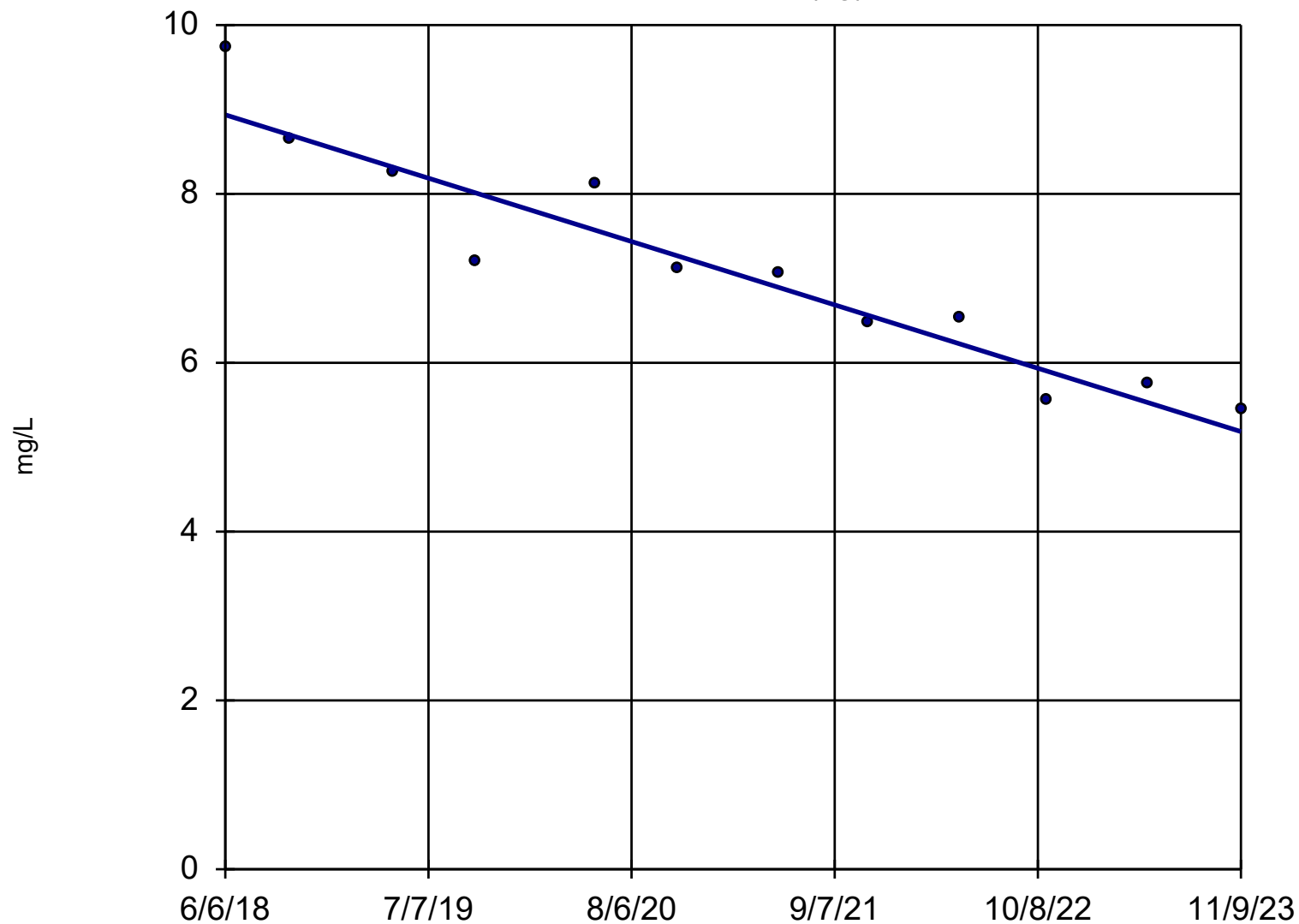
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Ammonia-N Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

P-12 (bg)



n = 12

Slope = -0.6912
units per year.

Mann-Kendall
statistic = -60
critical = -30

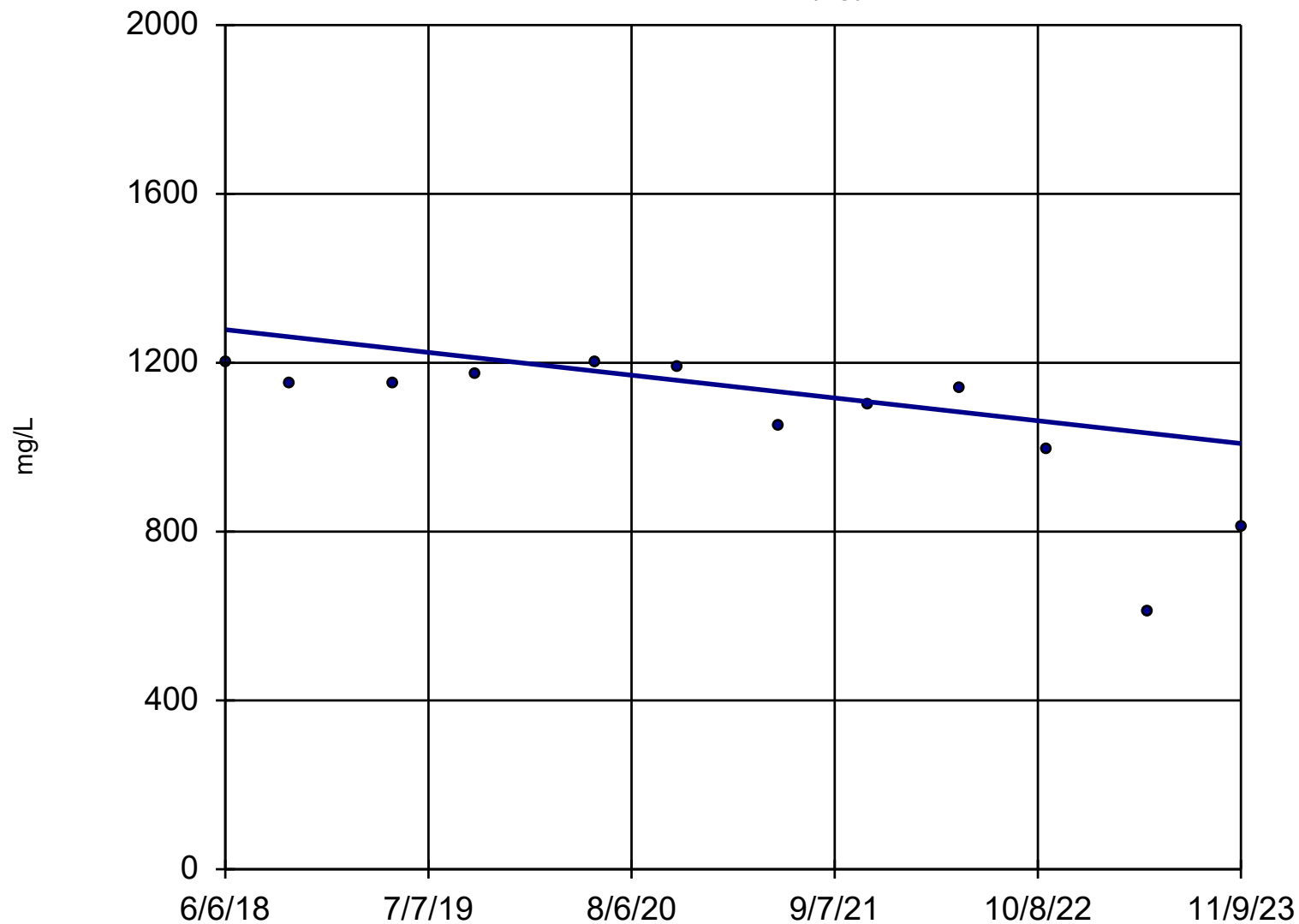
Decreasing trend
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confidence level
($\alpha = 0.025$ per
tail).

Constituent: Chloride Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

P-13 (bg)



n = 12

Slope = -49.67
units per year.

Mann-Kendall
statistic = -40
critical = -30

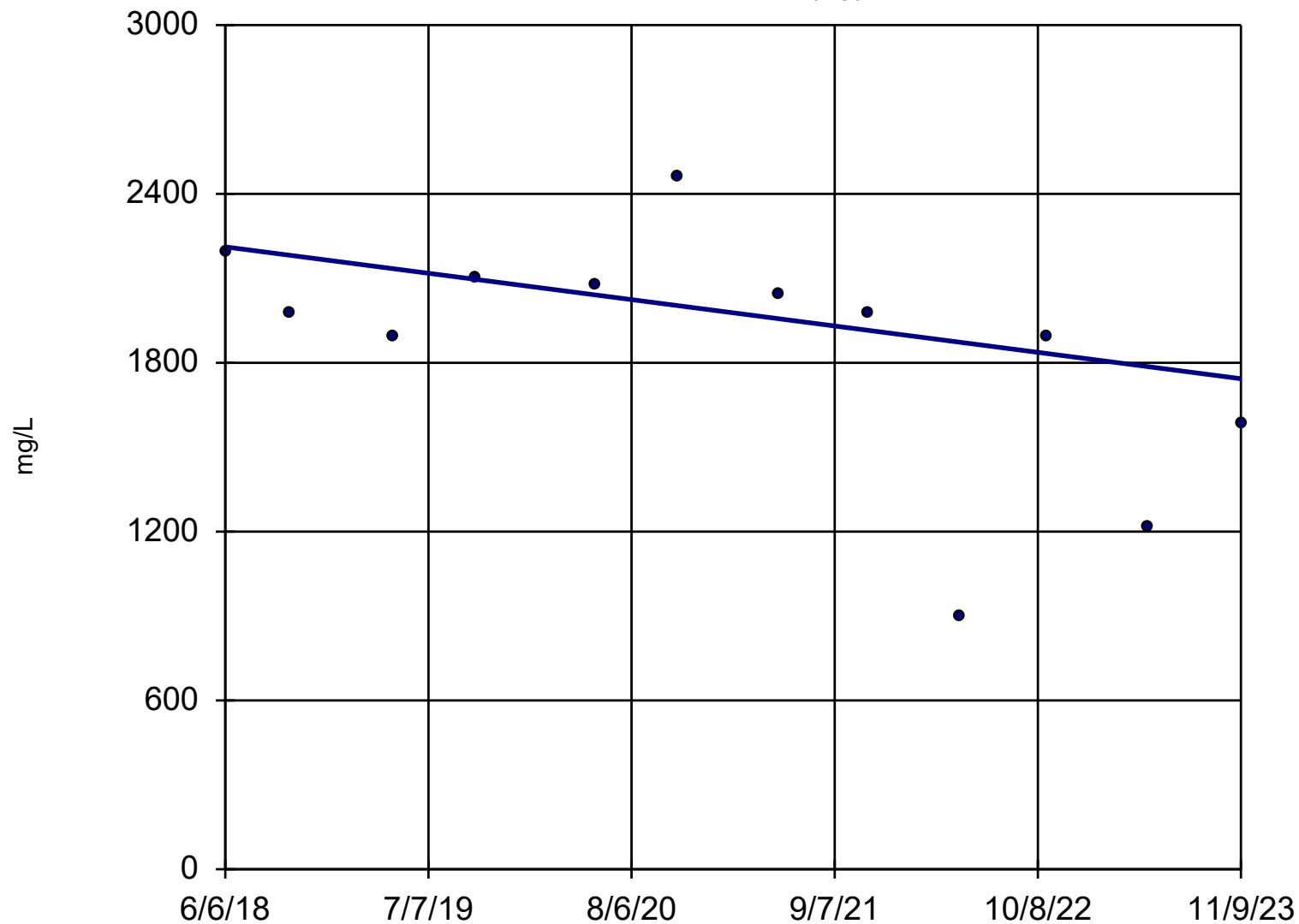
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significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Chloride Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

P-05 (bg)



n = 12

Slope = -86.26
units per year.

Mann-Kendall
statistic = -32
critical = -30

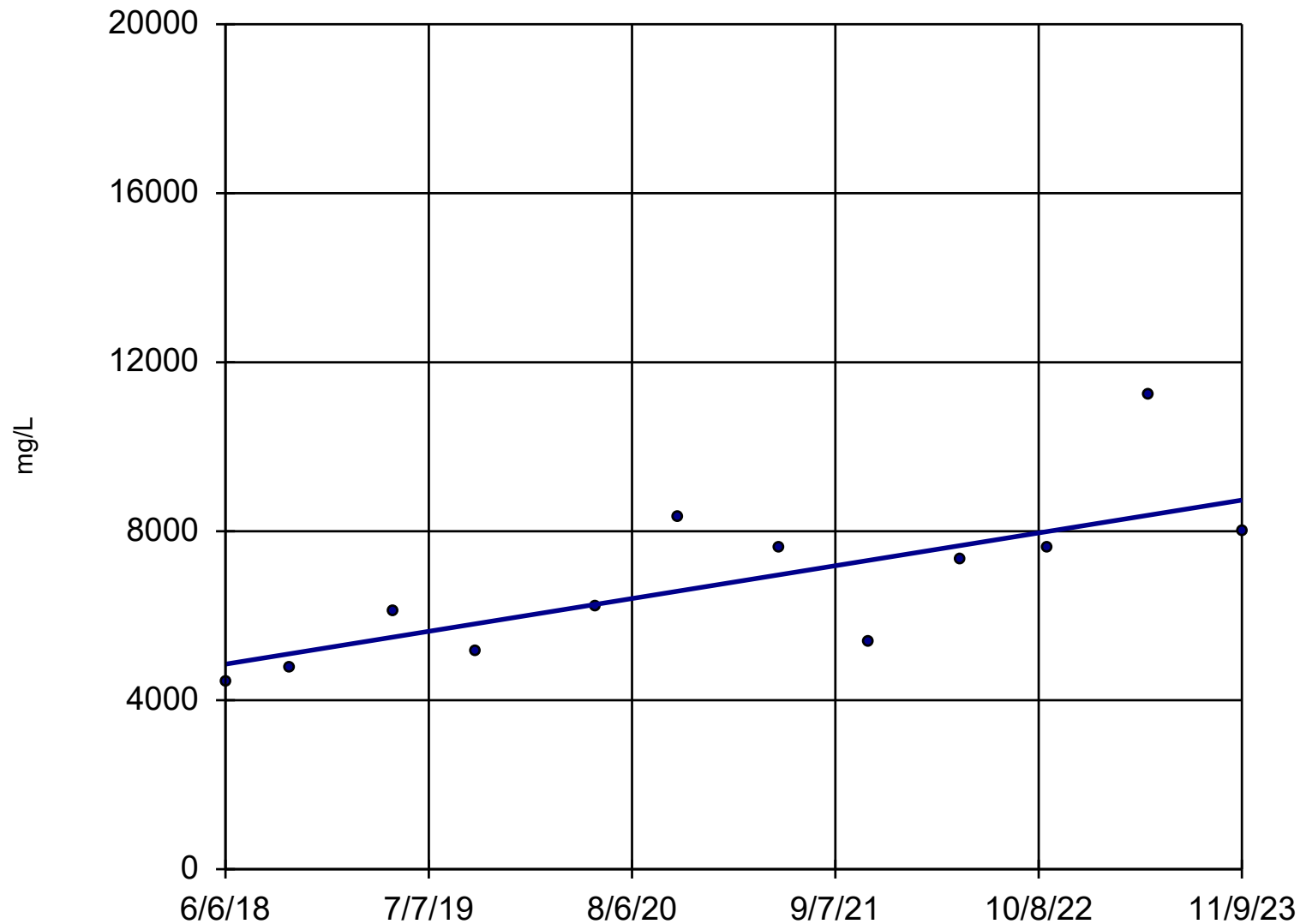
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Chloride Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

SA-11 (bg)



n = 12

Slope = 715.3
units per year.

Mann-Kendall
statistic = 44
critical = 30

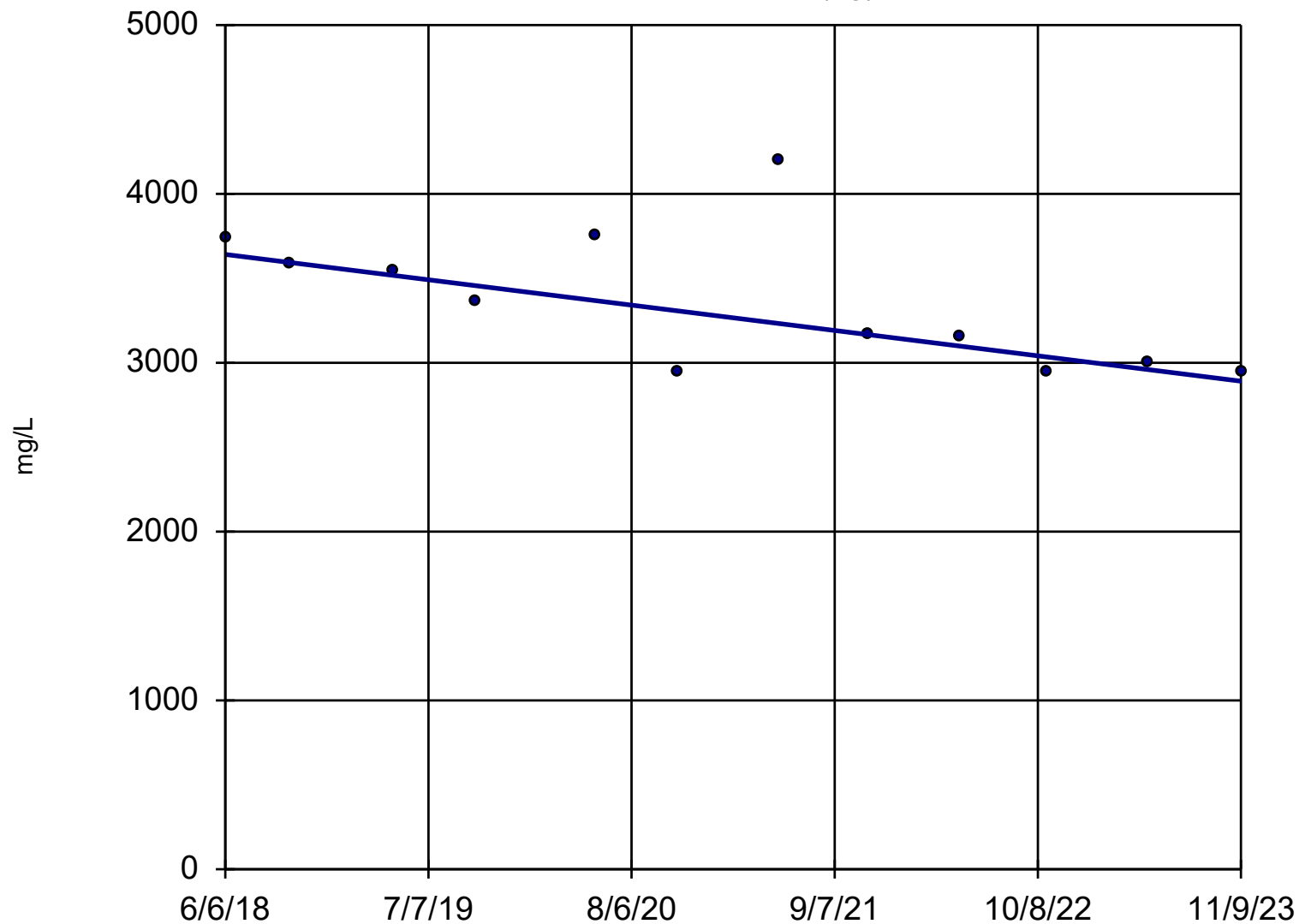
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Chloride Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

SA-14 (bg)



n = 12

Slope = -138.4
units per year.

Mann-Kendall
statistic = -35
critical = -30

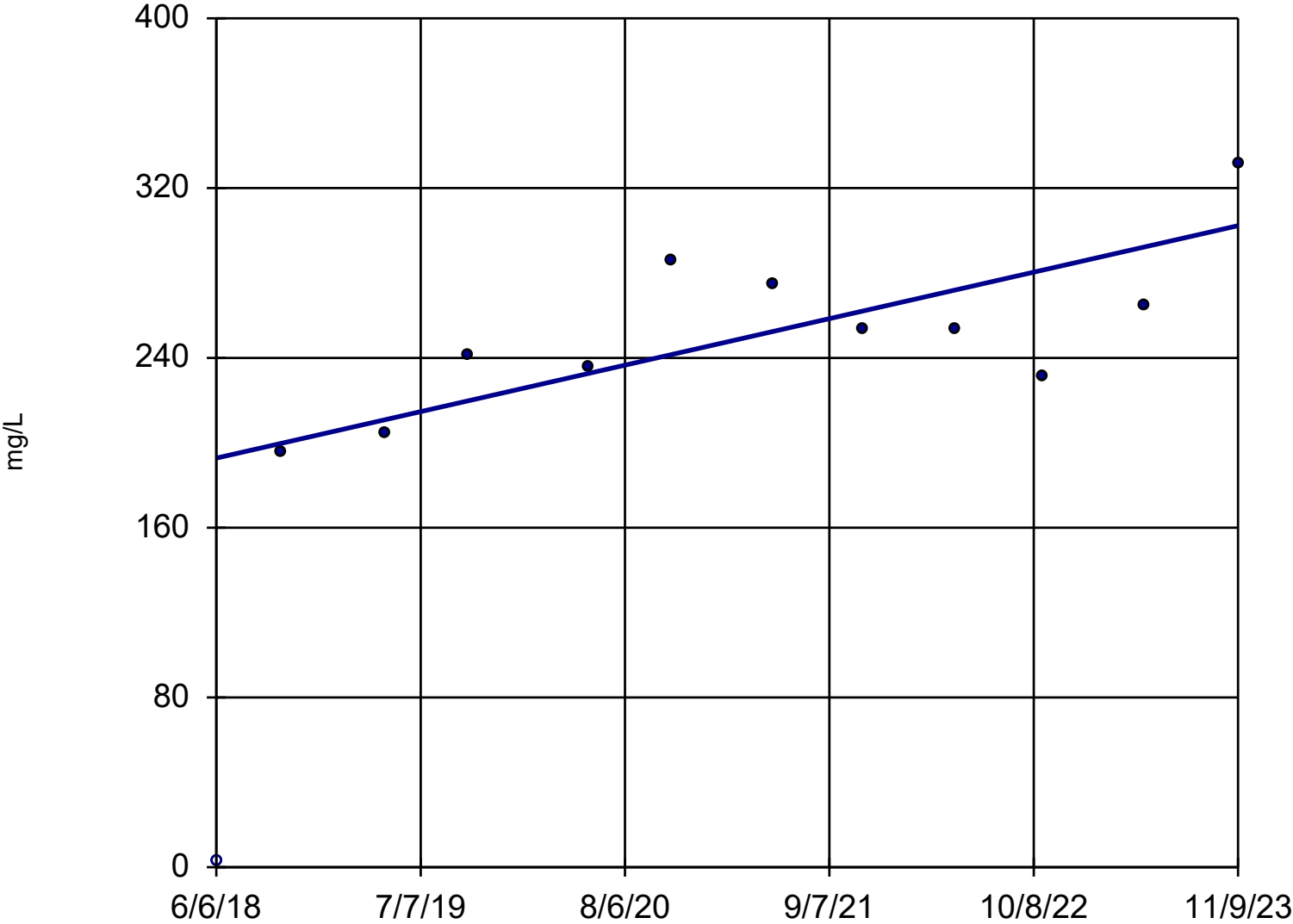
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/15/2024 1:30 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Sen's Slope Estimator

PW (bg)



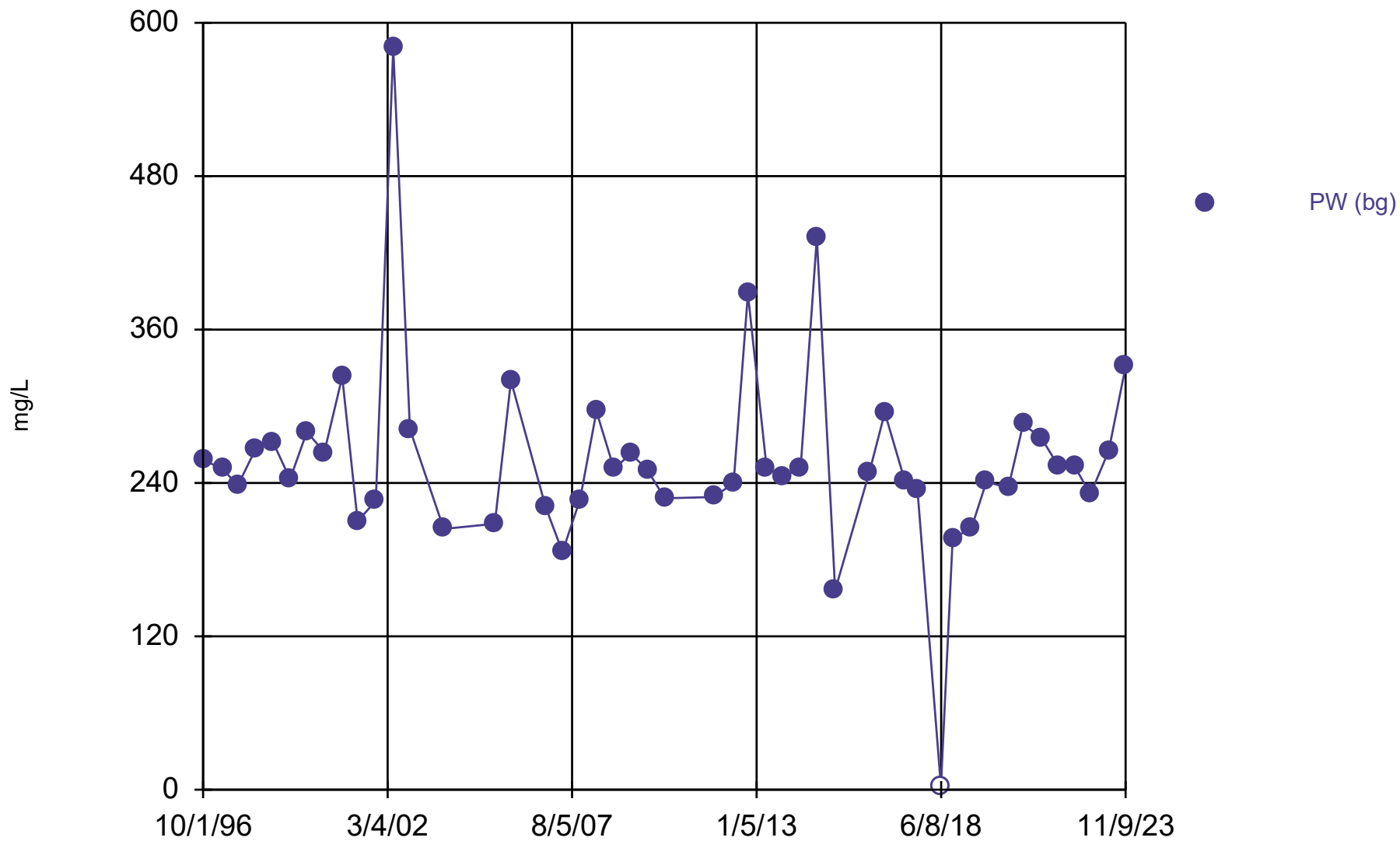
n = 12

Slope = 20.17
units per year.

Mann-Kendall
statistic = 36
critical = 30

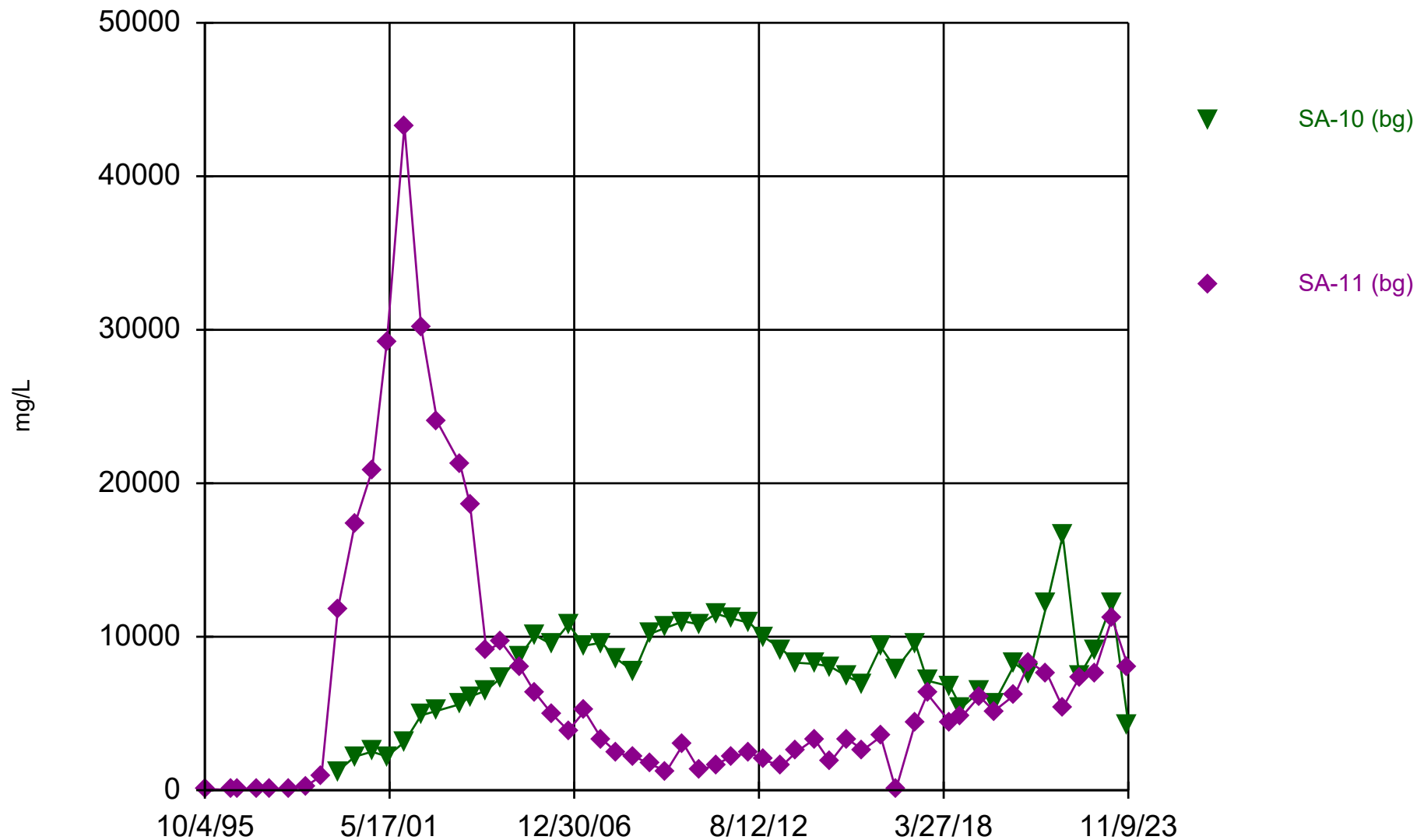
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/16/2024 1:09 PM
Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

Time Series



Constituent: Chloride Analysis Run 5/16/2024 1:14 PM

Alcoa - Northwest Alloys Client: Alcoa Data: 0000_SANITAS_for 2024

APPENDIX F

Surface Water Monitoring Data (electronic submittal)

APPENDIX G

Additional Site Work

G.1 Well Re-development Data Summary

Appendix G.1. Well Re-Development Summary
2023 L-Bar Site Five-Year Review Report

Well ID	Static Water Level (DTW FT BTC)	Well Bott. (FT BGS; SOFT or HARD)	Bailing Volume (gallons)	Pump Volume (gallons)	Total Purge Vol (gallons)	Final Turbidity Reading (NTUs)	Final Clarity/ Water Color (visual observation)	Comments/Observations
P-12	4.90	15.50 (HARD)	12	NA	12	9.6 (HACH)	Slightly turbid to clear	Bailed approx. dry; let recover & collect turbidity reading.
P-13	4.31	8.95 (HARD)	2.5	NA	2.5	NA	Clear	Purge water slightly turbid (visual assessment).
P-05	6.05	13.69 (HARD)	18	NA	18	35.5 (HACH)	Grey to sl. Turbid	Initial purge water very turbid grey, cleared substantially during bailing cycles.
P-06	NA (see comments)*	NA	NA	NA	NA	NA	NA	Ice plug in 2" casing at ground surface, tried to remove but unsuccessful.
P-19	NA (see comments)*	NA	NA	NA	NA	NA	NA	Ponded conditions surface water frozen around stick-up; ice plug inside 2" casing could not develop.
P-20B	4.19	8.39 (HARD)	5	NA	5	3.3 (HACH)	Clear	Initial bails removed significant dark brown organic matter (bee carcasses) and mouse fur; purge water cleared substantially during process. Purged dry 5 different cycles.
P-25	1.95	13.80 (HARD)	10	15	25	9.4 (HACH)	Clear	Initial purge water orange-brown and turbid, cleared substantially when low-flow pumping to clear.
P-27	2.91	10.90 (HARD)	5	15	20	8.8 (HACH)	Clear	Initial purge water grey sl. Turbid, cleared up substantially with low-flow purging.

Notes:
DTW Depth to groundwater
FT Feet
BTC Below top of casing
NTUs Turbidimetric turbidity unit (measure of suspended particles in water); measured in-situ with a Hach 2100 Turbidimeter
* Frozen ice plug inside of 2" PVC casing at ground surface, tried to punch out with bailer and add water to thaw but could not remove plug to develop.

G.2 Survey Report by Montoya Land Surveying, LLC



Jamey Montoya
Montoya Land Surveying LLC
P.O. Box 7350
Spokane, Washington
541-221-2427
jamey@montoyalandsurveying.com

March 1, 2023

Craig Sauer, LG
Great West Engineering
9221 N Division Street Ste F
Spokane, WA 99218

Dear Craig,

On Wednesday March 1, 2023 I met you at the L-Bar site near Chewelah, Washington to walk the site and see the location of monitoring wells that needed elevations verified. I used existing well casings for vertical control. My results are as follows:

Holding an elevation of 1668.27 for SA-11 I determined these elevations:

- SA-10 EL = 1671.69
- SA-14 EL = 1666.29

Holding an elevation of 1642.25 for P-20B I determined these elevations:

- P-25 EL = 1639.25

Holding an elevation of 1642.99 for P-05 I determined these elevations:

- P-27 EL = 1641.70
- P-06 (north) EL = 1642.23
- P-19 EL = 1639.71

Sincerely,


Jamey Montoya
Owner
Montoya Land Surveying LLC

